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MARCH 1997 - CONTENTS

Editorial



Something for averyone this month. I'm determined to give every reader the best value possible throughout the whole megazine, because let's face it, without you, the

the whole megazine, because the free free it, without you, the reader, we wouldn't be here at all. Ther's why we've got the swesome SoundStudio as this month's main application (check out the CD audio track for teste of what it can do) backed up by the brillient Cheos Engling 2 from those Sitmep Brothers. In

the mag you'll find a complete troublashooting guide to printers and everything you need to know about making music with your Amige. As for 'Graphics Overdrive', that comes in the form of the first review of the Cybervision 3D cerd and a round-up of stocks of sharewere graphics software.



Feature

20 Turn your Amiga into a

Professional Sound Studio
With this month's revolutionary OctoMED SoundStudio
cover disk advisorary out have the unique opportunity of
transforming your Amiga into a 15-bit multi-channel music
machine with hard disk recording! You just won't believe
the possibilities that are now open to you, whatever Amiga
you have. This is the big time.



Feature

28 Printers: Problem Solvedi

We've all got them printers and problems. The combination of a printer and andings can be minefield of troubles, but once you know the tricks of the trade it's plain sailing to printer perfection. Larry Histomott is here to explain everything you need to know to get the whole lot working in complete harmony, along with a top ten chart of Amiga-friendly printers, details of all the various types of printer technology and a belty question and answer section.



Cover Disks and Super CD-ROM



8 OctaMED SoundStudio
This really is the ultimate Amiga music package in every sense, light years sheed of OctaMED 6. On pege 8 you'll find a brief introduction to the program, while a fuller feature can be tracked down on page 20 (see above).

6 The Chaos Engine 2 Finally it's arrived. The long-sweited azclusive cover disk demo of the Bitmep's instant classic aweits you. A fierce blast for either one or two players.

12 Super CD-ROM 8

Leading the way in Amiga CD-ROMs, we continue with another disc packed with web sites, games, utilities, graphics, demos and averything from the floppy disk edition, plus an axclusive CD audio track created with this month's CECHMED SoundStudio package

News

16 Find out the truth behind the new Amiga owner rumours, plus news on the forthcoming World of Amiga Show and more.

Games

Previews.

- Virtuel Karting Deluxe
- 36 Max Bally
- 37 Ffigv

Reviews

- Burnout
- JETPilot 42
- 43 XP8 non AGA 44 Budget Games
- Game Tins
- Vampyra
- 49 Snip Tips

Tech Scene - utilities and hardware

- 52 Cybervision 3D
- 54 Grephics Software Roundup
- 56 SMD 100 MPEG Player 60 Quickcam Interface
- 62 Geek Gadgets
- 63 Golden Imaga Trackball
- 64 PD Scene
- 67 PD Utilities
- 70 CD-ROM Scene
- 72 Art Gallery

Workshop

- 76 3D Rendaring; Imagina 4.0 79
- Imagine 4.0 Manuel Offer 82 OctaMED SoundStudio
- 84 Wirad World
- 86 Net God
- 88 Surf of the Month
- 92 Advertisement index 94 Masterclass
- Frequently Asked Questions
- 98 O+A
- 102 Backchat
- 104 Points of View
- 106 Subscriptions















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Cover disk 152 OctaMED SoundStudio

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fore you go say further. Installation of OctaMED undStudio is very straightrward. Load up Workl

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Cover disk 153



Welcome to the amazing Chaos Engine 2 You will be glad to know that this game needs no installation - I'm sure you are all itching for some Steampunk action, so just switch on, boot from disk 153 and gol

After a few momente you will be presented with an option screen Move the joystick up and down to pick your selection, than piess fira. First you are asked to chose a one or two player game, then you are offered a choice of four char-

acters to play. The Navvie is slow and dumb but totally nails, the Gentleman fest and clever but weak, the Brigand average but smart and the Mercenary average but aggressive. Once you have chosan, press file again and apon you will be presented with a briefing screen which tells you what to do Fire will and this and get you to the action

Gameplay is quite straightforward. To progress through the level you must switch wall switches by walking up to them and pressing fire, and open doors (if you have a key) in a similar way. Any dynamite you may find can be thrown by pointing in the way you want if chucked and holding the fire button for a few seconds, and you can shoot the nastles by . no, you can figure that one out yourselves

The level ands when one or other player has made their way to the last door with the key, so watch out. Your so-called partner may suddenly turn on you just when you thought you were sefe.





OctaMED

"Frankly there is no other software that can touch it in any department", we said when we reviewed OctaMED SoundStudio last year. rating it et e jaw-dropping 94%! Now this stunning piece of music

softwara is yours, only

with CU Amiga Megezine. Fabulous features 14-bit output from a standard Amige

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f ever there was a program that deserved the accolede of Ultimate Amiga Music Software, it's OctaMED SoundStudio, The OctaMED

series has been running for many years oradually improving with each new update, but until SoundStudio, it

was limited by the basic constraints of the Amiga's 8-bit four channel sound chic. Those constraints are now blown clean away, as

opens up a would of possibilitles, such es 64 sample channels, 14-bit output from any Amiga, 16-bit output via a range of sound cards, realtime echo effects, stereo

anning for each track, ven direct to disk cording in stereo 16 t on any Amida. hich makes it possile to master tracks to aid drive and copy em to audia CD with othing more than ur Amiga and a CD-Institut MO

MIDI musicians are stered for too A omolete MIDI system in be driven from oundStudio with ise, even seemlessly

incorporated with your existing semple-based set-up. You'll find the audio track on this month a cover CD-ROM was produced with just such a combination of

MIDI and Amiga samples SoundStudio performs a renge of minor miracles whether you've got a 2Mb A500 Plus, e tooled up A4000T with a 16 bit card and CD-ROM writer or anything in between, transcending the previous limits of your Amiga and turning it into an incredibly powerful music-making machine

Getting started If you have the CD edition the

best way to find out what SoundStudio can do is to load one of the demo modules on this month's CD Otherwise find at least one multi-channel module to load and pley Select Open from the Project menu and then use the standard file requester to choose a SoundStudio module from the



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relevant section of the disk or CD Bafore you play the module, make sure you have the 'mixing' mode activated. To do this, select

Set Options from the Song menu and click on the 1-64 Ch Mixing button, followed by Exit This takes SoundStudio out of stendard Amiga four channel mode and into its own special multichannal retargetable audio mode

Next you can select your preferred output mode Go to the Settings menu and select Mixing Settings. This gives you e number of main output options listed at the top left of the box. If you have one of the 16-bit sound cards included in the list, select that If not you can still use the Amiga 14-bit option for high quality output from the standard Amiga. audio chip The other settings ere elso

important to get the best sound quality from your set-up, but for now just click the Stereo button and then Exit. Now click the top Play button next the Song on the Main Control panel to hear

You Il notice the pulldown manus change as you select different sections of the program. If at any time you went to get back to the main menus, click on the Main Control panel to activate it and the available menus will change If you close any of the editors or panels you can elways oring them back by selecting them from the Display menu. Any that aren't listed in the Display menu cen be activated from other menu options

Online help

At any time you can call up the ArnigaGuide online help document by pressing the Help key. This is a feirly comprehensive guide to the many different areas. of the program end should answer most questions and problems that arise as you find your way around 1

Where next? w you've had a brie oduction to OctoMED Studio you can get ted on our new tutorial be found on page 82. But ore you dive into that you ald take a look et our turn on page 20, which has thing you need to know ut turning your Amiga

o a complete professional and studio.

Main controls

The main control penel houses some of the more commonly used buttons and also offers quick access to four of the most often used sub-aditore. The top left corner houses the playing control buttons: Play and Continue for both the whole song and the current book, plus Stop. The D button sets SoundStudio in record standby mode, started whenever you next plass a key. Along the bottom of the Main Control panel are three chack boxes: Edit toggles edit mode in which your keyboard presses are recorded onto the current track, Space turns on double-space mode (can be altered to any specing you require) and Chord allows you to enter chords from the keyboard (limited on A1200 due to a hardware lault). The Oct button displays the current octaves assigned to the keyboard. The top section displays the current instrument number, its name and its length In bytes.

The four buttons in the middle of the penel open up the sub-editors below:

Sample List

This is a way of saving time when you went to load in a new sample. Instead of fishing around on a range of disks and drives to find the right instrument, you can use this to browse your sound collection from a pre-leaded list of all your Instrument directories. This is very handy it you have a hard drive with a number of different sample directories, and especially useful if you are limited to working from floppy disks. If your chosen sample is on a floppy or an unmounted diek, you'll be asked to insert the relevant disk

To add your own sample directories to the list, go to the Displey menu and select Sample List Editor. You can then add a number of directories which will be scanned for filenemes and edded to the Sample List. Select Save List to save the changes.



Type

An Instrument in SoundStudio le not necessarily an 8-bit Amige sample it could be 8-bit or 16-bit stereo or mono. It doesn't actually have to be a sample et ell. It could be a synthetic sound made in the Synth Sound Editor or a hybrid cross between a synth sound and a sample. It could evan be an external sample, which is a nest way of culng a sample vie MIDI from a second Amiga running SoundStudio. If you have an Aura sampler you can set certain sounds to replay through it, likewise with a Toppata card. However, these last two selections are only relavant if you are using standard four channel mode (as opposed to 1-64 channal mixing mode).



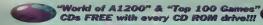
Props This iumps to the instrument Properties window It offers quite precies control over certain aspects of each instrument. For exemple, the Hold and Decay values allow you to set default values for the sustain and release times of each instrument. This is also where you set up any MIDI instruments to be used in your tracks. If you are using the 1-64 Channel Mixing mode you can also set up ping pong loops for sempled instruments. In which the sound is first played forwards, then backwards and repeated indefinitely.



Edit

This will take you to the sample editor, unless you have selected a synth sound, in which case you'll see the synth sound aditor instead. The sample editor is a very powerful part of SoundStudjo, giy ing you precise control over your sampled instruments. This allows you to individually edit every byte of your samples, either by drawing on the waveform display with the mouse, or with the halp of the many aditing and affect options.





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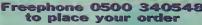
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What's on Super

OctaMED SoundStudio, Cheos Engine 2 demo and whole lot more on this month's top quality CD.

How to use CUCD8

As with prioric cover CDs, CLUCIS can be used either by booting on a CSC22 or A12000000 with adequate CDS2 enablation. The CD will not boot under any Keckstat estime than 3.0 H sunsy the CD vis Merchaneth and interching to an adviser directly of the CD then 15 morporant to test click on the first CD reco. This sets up various assigns and make MILI 3 enemorates wastable if it is not listed with safely first listed that claims software directly from CD is a bouch and go business. Affel that claims software directly from CD is a bouch and go business. Affel that claims software directly from CD is a bouch and go business. Affel that the company of the company of the company of the company of the private with drive of the company of the company of the name included installar into CD also nors the New Loore patch so don't be supressed that use one change etherworks.

A word on demos and games

Demos and games are almost never coded in a so-called OS Legal way. That means that which they may work for us, they maint in our work for you for several reasons. Either your herdware selvar is slightly offerent or some third party software running on your Amary upost the demo or consume resources that the demolgame requires. Please do not assume the CD is samply "faulty" if eny of this software refusions to run.

It simply isn't practical for us to make everything on the CD run on every possible hardware / software configuration. The majority of files will be fine on the majority of systems, but the further away your system is from the norm, the more that wort 'work on it. Do not be too surprised if you find some software doesn't work on your half mag Kickstart 1/2. ASOD or your Power PC accelerated 4000T the people who wrote the software probably didn't have on to chock it on

There are things you aim do to make the software more lakely to un. Course down any other software scenes and so on will fine up resources. Best of all copy the centigame onto you are differed or resources. Best of all copy the centigame onto you are differed and grown tests missed but the state of the control of the state of grown tests missed but the state of the control of the state of grown tests missed to the control of the state of the control of the state of the control of the control of state of the control of the control of state of the control of the control of the control of state of the control of the control of state state of state s

Finally, if you are having problems getting anything to run, please please make sure you have read all the documentation before you send your CD to Schena in fury!

Chaos Engine 2

Here at CLI Amige Miggarea we like to bring you the best there is. Second best just nish enough Will light sepoils to get the good stiff if we have to, but there was no reset to strep on the old viousle dusters this month when this beauty turned up. Chase Egripe' 2 is one of the best gaines to hit the Amige in egis, and it you don't believe me, there is a full feel here to you to try out, with four characters to choose from and the excallent spit screen two power more enveloped to choose from and the account of the CLI Clinical and ABOU viscous on the CLI Clinical to contribute the second of the contribute of the CLI when the contribute of the contribute of the contribute of the CLI the contribute of the contribute of the contribute of the CLI the contribute of t

What's in your drawers

What's in Asia the sun is shiring and the birds have broken mito song. It must be that CUCD time of the month! Readers who have used a CU Amiga CD-ROM before will find everything fairly familier CUCDB is set up as a Worksheppt disk.

Policy December 9 County State 1

from on an appropriate machine. Clicking the INTCD (con will set up your system to run from the CD properly. The first thing that you may notice as a result of electing on this is that all the loons change- don't paine, this is the the excellent Medicions system, not some obscure virus. The Workbeinch 31 drawars such as Prefs. System, Utilities and Tools are in the root directory.

The audio track

This month's audio frack is called Graffe, by our esteemed editor and music moestor flory "the Organ' Horgan This great track (I had to say that he is the boss) demonstrates the capabilities of CraMED SoundStudio II you want to know more, you can read all about it m the festure article on page 26

In the root directory of CUCD8 OctaMED Sound Studio

OctaMED Sound St. Judging by the number of mods we get sent every month, there are a lor of you cut there who are into making music. If you rearded this This is THE Amiga sound package, 94% rated when we reviewed it in our September 96 issua Yop this is it. the latest package.



expect us to give you? Some old version of OctaMED? Nah, not us The full Monty, as our antipodeen CD editor would say

A sample 16-brt track can be found in the parent directory of the samplas drawer (the audio track from September 96). Select the open menu option, then click on parent from the tile requester to locate it.

Using CUCD8 on non Amigas

It was don't have a CD-ROM for your Amage but have access to a CD-ROM on another computer, you may still be able to get a lot out of CUCDB Flices can be copied enter PC formatted 720k disk, then loaded into your Amage using CrossDos, which cere as steadard with Workbench versions? and higher if you don't know how to use CrossDos you will find in fully explained in the Workbench manual. Don't aspect anything to run from the CD however.



.....

Multiview, Clock and some tools for working with Newlcon images can be found here
Teats

antains the Workbench 3.1 tools drawer

Prefs
The Workbench 3.1 preferences drawer and Newton prefs

System The 3.1 system

The 3.1 system drewer plus support files. The latest versions of MUI 3.6. PRShow, Visage, Firok, Psmet, Newtoons, HappyENV, GMPlay, Hippoplayer, Play18, DellTracker and SuparView are all crammed here to aid access to the rest of the CD.

WWW

Who needs a modern when you have CLODE? Whive taken a load of web sites and such them on the CO for you to thrown at a spend that would give the festest modern enervous breakdown (Browse and Anebu be abit here for you to use, you clack him to end of your clack, which have been the fest of you to use, you clack him the not of your through and put browsing. The Clutchik, Phases and PIOS websites as all times as you can make a gly out own mid as to wrom has the safest products can be previously on the vebsites of HO, Bitterson, Costino and the AnnyaMail.

Surf of the month pages include a Red Dwarf atta the met office pages (don't expect today's weather), and in keeping with this month's musical theme we've chucked in websites from Japanese music electronics gents Yamaha, Roland and British mixing desk masters Soundcoart.

Inside the CUCD drawer

All sorts of utilities for the net-heads amongst you, including mail -atch, Voodeo, Amiffelk, the Aminat index and a bunch of toolbar one for IBrowsa

Programming

Birds do it, bees do it, even educated fleas do it let's do it let's code a chunky to plenar routine. And if you aren't sure where to start, how about the full, complete source code for Allen Breed 3D2? The question on everyone's lips. Who will compile it first? If Unix is more you

flavour, check out the ixemul developers kit and get that Unix emulation libiary to sing

your tune. All this lost on you? Yearning for do while loops and sprite banks? Check out the AMOS FAQsI We cater for all tastes

Grephice
More anims to tickle your fency end lots of scons, around 40Mb of objects for users of Imagine fractals, trakke pics and more

copiers for users of imagina tractals, trackie pies and more

Readers

Lots here this month, including some stuff we couldn't cram onto last

Loss not a tris morni, including semisi stuff we couldn't crain onto ast months disk such as Georges Septil's 8Mb Imagine enim, some great organic art by Joel Nicklasson and some nice hand drawn and composites by John Scutt. Gest germain include Space Farming, an enormous SF strategy game by king' Knut. Dialy Lote Julis include an X-fiftes guide so cleaked it's spoorly and the enzaring Globel Mepping System. Animator Date Hemonway shows of his new Zip drive by sendrar us 34 Mb too!

Demoe

Check out the entries to the Party '96 demo competition for the cutting edge of Amige demo programming. Some of these require fairly powerful computers to run so check any accompanying text files first. Information.

The latest version of the AmraeGuida to the Amrae's shared libraries. All those libraries that have been hanging around on your hard drive for years that even Muldar and Scully couldn't explain fully documented. Also the latest undates on Team Amrae.

Utilities Check ou

Check out Megichlenu, an intuition improver, and the amazingly useful SearchGuide, which can save a lot of hunting when you are looking for something builed deep inside a big Amagduide Sound Check out the latest version of the brilliant Hilopoplever, the player that

Check out the latest version of the brilliant rippopayer, the payer that copes with more sound formats than anything also. This is the one we use as our default payer for all the mods on CUCD-ROMs. There is also a MID[player with a bunch of sample mild tracks and another steck of mods to keep your neighbours awake late into the night.

ley, who

Here, you wimmed thack out Daface, a great little puzzler, and the demo of the 256 colour high-residemolition delby that is Burnout. There are also a selection of Worms levels and replacement sounds and some card sets for Klandike.

Driving CUCDs

Generally driving CUCOs is as simple as clicking on an icon of something you want to run, play, see aft. You should find it will submatchely activete a player, lever or run the program without further do. Of course if you access CUCO from a directory utility then you can use your own choice of players, viewers etc. on the specific false.

We car't emphasise enough the importance of clicking on any readme or other documentation files inside each directory. There's simply too much material for us to detail here so you'll have to explore, read the documentation and see if each program or whatever is of use or interest to you.

So have fun exploring CUCDB and don't forget to send us any work of your own so we can include it on letter CDs' Also feel free to write mit the magazine and tell us what you'd like to see on future CDs or how you'd like to see them organised. Address all letters of this topic to CD Ednor Enov!

Get your work published!





Do you have softwere, ertwork,

utilitias, mods, gemes or any other Amiga creations that you think are worthy of inclusion on e Supar CD? If so, get them to us now and give your work e worldwide audience. The best music module each month

even gats recorded onto the CD as en audio treckl

How to send your work in Master, including most cause as as as as as an area of the charmes they can explosed to an INT late as straids being explosed. It can INT late as straids being the set of the charmes and self-tree, the general Master area to coding in out they are as according on the charges the late as as according as of the charges are coding in the charges are coding in the charges are code in the charges are code. The content charge in the whole can be used in the result and the charges are code.	I harely acknowledge that the negocial nucleood in of my over contents ended I ever the copyright to the material and past CV Anigo Magazine the rights to publish this unitered no a forthcoming cover CD-ROM.	Brishops by 1181 d 20mps 2 Crement 20mps
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New World of Amiga Show

date has been set for the next World OV. Arriga Show It's to be held on Saturday 17th and Sunday 18th May 1997 at last year's venue, the Novotel in Hammersmith, West London

The organisers promise that all the latest developments in Armiga technology will be on display. Apparently response from the Armige industry has been very possitive with obest of the practice with obest of the practice of

Meny of the exhibitors are planning to release and show new herdware end software developments, to such an extent that this yeer's show could be a significant move away from the market-stall theme of recent years to a more conventional showcase for new developments. Even so, you can be sure there won't be any shortage of bargains to be had. Based on previous form, you should be able to pick up many current items at drastically reduced prices. So be prepared and take some spending monely!

Last year's show was a big success with far more visitors ettending then had been anticipated by the organisers. The size of the erena was far too smell leading to e crush that lasted more for the show's duration. No doubt have lesson hes been learned and this year's exhibition will be rather better organised so as to minimise queues and give everyone enough space to enjoy the show.

CU Amiga Magazine will be

there of course The CU Amiga

Megazine stand was totally mobbed last year and there are plans afoot to ensure that this year well be no exception with a host of exclusives and surprises. Tickets on the door are priced at £8 for adults and £6 for children. See you there



Haage & Partner Release StormC 2.0 Epic Announce Games Label

The German distributor/developer Heage & Partner recently announced a StormC 2.0, the next version of their C/C++ compiler for the 680x0 senes of processors

New features include hiererchical projects, external ARexx control, peraistent break points, desassembler, CPU register display and stack checking Sounds promising for Amiga programmers, expect a review in CU Amiga soon.

Looking more to the future, Heage & Partner have also Motorola Power PC CPU. A C compiler which runs on 880x8 Amigas but can generate Power PC output code. Very few details are evaluable accept that it is still in beta testing while it is optimised still further

Given that it's the only PPC compiler available, it looks to be the essential tool for developers with Phase 5's PowerUP PowerPC cards

Contect Heage & Partner on +49-6007-930050 for more information Epic long time suppliers of CD-ROMs, have announced that they are moving into the games market with their own games lobel, Islanda They are planning to release their games primarily on CD-ROM, atthough disk versions of some of

the trias will be made available. Their first plenned releases (priced around £25) are Kargon, e 3D Dungeon Master style adventure puzzler and Testament,

e Doom clone.
Sexth Sense Investigators is another title pencilled in for an early release. Produced by



Cinetech, this Day of the Tentacle style game, was ported over from the PC using their custom adventure porting tool. This means that porting of PC CD-ROM adventure titles to the Arriga could become very chaig and therefore very attractive to publishers.

Following the announcement that VIScorp heve in effect bulled out of the Amiga Technologies tekeover deel (see News, March facturer QuikPak have expressed an interest in acquiring the

Amiga rights and technology The ever-fruitful rumour mill has elevated QuikPak to the stetus of front-runner in the bid for the Amiga, aithough at the time of going to piess there is no official evidence to back this up QuikPak are the company con-

Technologies erm. They have since expanded their production new A4000T-based machines

Aimed squarely at the high-end of the Amiga market these new machines include the A4040L, described as a luggable system

The A4040L/A4060L (s designed as a portable non-linear video editing system with a VideoToaster and a VideoToaster Fiver at its heart It's advertised in a number of configurations of CPU and with or without the Toaster parts with prices ranging from \$4495 to \$9995 An A5050T

one computer

That intile lot doesn't seem to offer much to the 'typical' Europeen Amige user, with the Toaster only competible with the USA TV standard NTSC, and prices likely to be translated directly from dollars to sterling (ie \$4495=£4495) QuikPak have mede noises about addressing the lower end scene but so fer specific details have not

been forthcoming In an open letter "to the Amige community" posted on their web site (which has since been removed) QuikPak ecknowledged the loyalty of Amiga users and

askad for input and feedback You can catch up with the latest news from QuikPak from their web site at http://www.ami gasupport.com/quikpek



Buildwic's Accounting ships vides editioned by the Control of the



A Ties phot in taken from Gard-Feb a with size, Contrating their A48661. Metics how the servers has a PC

QuikPak for Amiga? Vulcan Swoop for Second Femilian School Second Genetic Species



Vulcan software have aigned the clone Genetic Species from developers aMBROSIs

A demo version of Genetic Species has been knocking around for a little whole now, and has been generating some real excrement amongst Amige gamers who have seen it Running at extremely accept-

able speeds on a decent Amige even at 1 by 1 pixels in 256 colour full screen mode, this geme would be interesting even if it wasn't for the fact that initial impressions suggest that it will be very playable too

Vulgan say they are working closely with aMBROSia et the moment, helping them with the graphic design and gameplay It is going to be a few months before Genetic Species hits the shops yet, but if it is as good as It looks like being, expect it to be the game of '97

Vulcan say that they are being ers all the time, they currently

have an amazing 20 titles either ore always happy to see more to interested parties which lists

Vulcen appear determined to show that they are a lot more then just publishers of top down adventum puzzlers with sempled speech. Releases on their way include Breed 2000, oddly titled given that it is set in 2032ad on SF strategy game, Strangers, a beat 'em up, ultra violent AGA, a blaster with three levels of perellex scrolling in 256 colours, and Hall Pigs, a huge graphic adventure/ action title which will be released on CD and without the intros etc. on an astonishing 22 floppies Vulcan Software claim this game is so good they almost fainted when they first saw it!

For more information about Genetic Species or env of Vulcan Software planted releases you can contact them on tel 01709 670 259 or on their web site





Stateside More Changes at VIScorp VIScorp's fall from popularity in



Zone is Online

sysop of the AmigaZone, had promised a Web Interfece for AmigaZone subscribers on Portal for some time Bul Portal was operations over the summar However, CalWeb, which adopted the new twice-orphanad AmigaZone (the Zona onglasted on PeopleLink in the mid 80s), is i thankfully much better The Amige Zona, one of the bast Amiga-only online services, can features to subscribers through the World Wide Web

and Emeil, as wall as the Zone's Live chat is also e feature that is course the Amioe Zone's world-

For more information about. visit the Amiga Zone Web inter-

http://www.amigazone.com



more resignations have occurred In early January, CEO Bill Buck and Director of European Operations Raquel Valasco form, VIScorp did not discuss the dapartures but Chief Operating Officer Hugh Jencks steted that there is no immediate replacement linad up. In the meantime, Jencks and Cheirman Jury Graenberg will continue to oper

In a related story, ViScorp smanded on earlier public statement they made which implied that VIScorp had funded Amina Technologies operation in bankruptcy That funding came from which VIScorp says they plen to purchase. It is not a stretch to infer that this 'Valesco is indeed Raquel Valasco, and that the

ate the company from VIScorp's

Chicago headquarters

some way linked to this

Like any company, ViSenro has msi emplayeas. There is now a good hendful of lawsuits end counter stats involving ViScorp and former employees. The longest running saga which ViScorp won but is now in appeal, involved Nolan Bushnalf, founder of Atan and one-time CEO of VIScorp Presently, no fewer than four employees who left the company in 1995 are engaged in lawsurts with VIScom VviScorp has obtained a preliminary injunction against Interactive Video Publishing for Issues of intellactual property theft, and IVP is made up of three of thesa former ViScorpiana, in addition,

an IVP principal and yet anothformer employee have filed a breach of contract suit against

the company. SEC (Securities and Exchange ing body for public companies). VIScorp states that they are now doubtful as to whether or not their initial offer for the Amiga but that they are still interested in ecquining the Amiga technology "on the open market," In addition. been reised as to whether or not VIScorp can continua as a vieble going concern, as the company has completed its sixth year with out product revenue. VIScorp can be reached at 312-655-0903. http://www.vistv.com

Nova Design Gets New Showpiece

To help promote their product lina of powerful graphics eroation tools on the Amiga, Nove Design of Richmond, Virginia has commissioned a demonstration videorage from Chicagobased video production company The Vantega Point.

The nine-minute taps shows off the features of the popular ImegaFX 2,6 image processing

and effects peckegs, as well as the capabilities of previous versions of Aladdin, the 3D software Nova recently acquired the rights o. Nova plans to release V 5 0 of the softwere, with a new, updated interface, enhanced features, and tight integration with ImageFX imminently

The videotape was produced at The Vantage Point entirely with

Amige technology A Dreco Arniga-compatible workstation

> A2000/040 for the creation of original ImageFX scanes In addition professionally produced offects and scenes using ImagaFX and Aleddin are showcased on the videotape, including footage from two motion pictures featuring ImageFX production Nova Design can be reached et 804-282-1157, www.novedeaign com The Vantage Point can

was used along with an

be reached at 773-465-5158 www.xnet.com/~bohus ◆ Those renders were oil croated with Aladdia 48. tage which in our to be relaceded and sped by Nesalbungs very asset Espect a re Amign Magacine profess a month or two.







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What do the reviewers say? "P5% - Digfleniel

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Turn your Amiga into a professional

Congretulations, You have made e sound decision, es vou are now the owner of the most amazing music package ever written for the Amiga, Let Tony Horgan be your guide as we uncover the many telents of this complete software package.

eijo Kinnunen's OcteMED oundStudio is one of a kind - a unique music program that leapfrogs the competition and breaks free of the treditional sonic limits imposed by the Amige's hardware. Until SoundStudio, Amiga music software could, at best, push out eight poor-quality channels, or alternatively four channels of rather better quality sound. Now all that has changed. Even on a besic A1200 SoundStudio can offer 14-bit output (es opposed to the official maximum 8-bit bandwidth) in realtime with echo affects and even more channels than over before Amazingly, on just such a basic Amiga. with SoundStudio it's possible to output CD quality stereo 16-bit music consisting of up to 64 channels, direct to hard drive! Hook up a CD-ROM writer (now available for around £300) and you have all you need to master your very own eudio CDs

It's true! Add to that support for a wide range of 16-bit sound cands and et lest those old 8-bit limitations are gone forever. Of course it's a doddle to integrate MIDI instruments into your SoundStudio projects too, so the expansion options are limitiess.

are imitiess.
As you've probably now sellised,
SoundStudio is the biggest advance in
Amiga music software since the first over
tracker was written all those years go
Over the next few pages we'll cover some
of the map or features and go into some
detail on what they could me for you

New order

â

1st let's take a look at the heart of SoundStudio's new box of tacks the mix OctaMED and other trackers in that it has as own form of 'retargetable audio Instead of using the sound chip Paula to merapulate and play all the sounds, that all the tracks as they play, processing them according to any effects you have specified. It does this extremely quickly resulting in a steady stream of sound stereo sample. This sound data can then be passed onto your praferrad output device which could be the Arnige's sound chip, a 16-bit sound card or even a storage device such as a hard drive or Zip disk. Even if you direct this to the Amiga sound chip SoundStudio will give you the option to output at 14-bit or 8-bit

The second of th

see in a light lead of the Oxfold sound in a light lead of the Oxfold of

14-bit Paula

month you II find a large selection of 1 samples and enother substantial section containing 8-bit samples A smaller collection is also on the cover

disks of the floppy disk edition. Either way, you can mix and match samples from both collections in the same songs without any houble in genaral it's best to work with 18-bit samples, even if you are going to output at 14-bit or aven 8-bit, but so long as the samples you have see good and clear there won't.

be any problems. If you can the same module through 8-bit and from 14-bit output modes you'll notice that allowing the 14-bit output modes you'll notice that allowing the 14-bit output a mode as loud, it is a lot cleans with less distribution and faze in the top and You are also notice that this 14-bit output is somitted and you would get from moral force and a you would get from moral force problems to the the same sames and effects that SoundSuide of their showing, this sent a significant problem with a "family this sent a significant problem with a "family such as one powered by a "SMI" this problems.

Quite as bound to be uncovered whenever a machine to such extrames. One of these quietes to such extrames. One of these quietes to such extrames. One of these quietes when usang the Amiga's assund clap for amount. One may the of 2864t; but the is dependent on the screen made you set unning it of the screen makes the different parts of the screen makes and if you have a machine and the screen makes and if you have a machine to the screen makes and it will be a screen and it will be a screen and it will be a made one of these afternative modes and you'll be able to use a higher may sate. In

this case the highest rate will depend on your CPU power

Direct to disk

On slower Amigas, such as 68000 and 80020 machines it's not practical to play loads of channels an realitime and expect top sound quality However, there's a very simple way to use as many channels as you like and still get excellent sound quality tregardless of the speed of your Amiss

The secret is to use the direct to disk recording features. The basic theory is that you construct a small section (half a block for example) made up of as many channels as you like, then select Disk 8-bit from the Mixing Settings window, with a mix rate somewhere between 16 and 28kHz Now when you click the Play button you'll be asked to specify a destination for the output - in other words enter a friename and say where you want the output to be saved (floppy disk for small sections, haid disk for anything up to an entire song, whatever). Click Stop when the relevant part has been recorded, otherwise it will loop until you fill your destination device. Now you can clear the current song and re-load the sample you just made, which will now only use a single channel, or two if you output a sterso file. You can then use standard fourchannel mode if you prefer the slightly clearar sound quality

Working this way you can use as many channels as you like on even a basic A500 Plus with no hard driva. So whatever machine you have. SoundStudio is a boon



A. Sazadžiudiu is highly configurate, in the norman short have a very hapt nondraine tingstry has been notected as aride to have an many versions; and custred plants vanishs no permits. For our set up any access made you that is not you now oppose.



▲ With the over mixing and dish recording options you can tolks more advantage of Xara's single channel 18-bit notpot.

FEATURI

Sound cards Why Commodore never upgraded the Amiga's 8-bit sound is a mystery to us ell, but there have been a number of 16-bit sound cards released by third parties. many of which are compatible with SoundStudio You can choose from Toccata, Delfina or Maestro cards to act as a 16-bit output These are all Zorro cards. and so are only available to users of bigbox Amioas. You can select any of these as output options from the main Mixing Options window, selected from the Settings menu A1200 and A600 users can take advantage of the support for the Aura

PCMCIA sampler You can't select Aura as an output device from the mixing options, but you can assign individual samples to play through Aura (from the Instrument Type selector). One way to get the most from the Aura features is to record parts of your sing to disk as 16-bit samples and then play these through Aura, re-using the rest of your channels for new samples. Setting up the program for maximum quality Aura output quality can be tricky. You need to try different settings of the Minimum Period slider (accessed from the Aura Sampler option of the

Settings menu) to determine the highest output rate possible on your machine. Lower penod settings equate to higher output rates You'll know it you set too high a rate because the software will lock up temporauly Samples can also be assigned to output through a Tocceta caid although in this case you can only replay samples at a small range of preset pitches due to limitations of the Toccata hardware

Virtual mixer

Fine tuning of your mix is essential if you want it to sound professional and polished, SoundStudio has a few control windows which when combined add up to a powerful virtuel mixing desk. First of all there's the channel volume control section. Accessed from the Sono menu.

this is

the relative vol umes of each

chennel along with the overall output volume. The master volume should always be set to maximum for optimum sound quality, unless you're doing a menual fade in or fade out of the whole sono.

The Mixing Settings window leads off to the other two remaining parts of the virtual mixer. The first of these is the penning controller This works in a similar way to the valume control, but this time each chennel has a honzontal slider to define its position in the stereo (mage. The Sum of Balances. reading at the top gives you a rough guide to how well your overall song is balanced

of all the

chennels. Finally there's the Effects control panel, This deals with the resitime effects processing. currently consisting at two types of echoes imaybe more effects will be added in the future). The standard echo will add an echo to the whole sond Cross echo adds a stereo ping-pong type of echo effect. You can alter the space between the echoes by altering the Echo Rate velue, and the volume of the achoes themselves can be changed from the Echo Depth slider

by displaying the average panning value These echoes are applied to all trecks. OctaMED Soundstudio V1.00 - Song: (unnamed) Relative Track Volumes Mix - Track Panning VI Free Panning Balances -3 -2 Exit Mix - Effects Ccho: P Cross Echo Exi t Echo Rate (ms) [156 Max. Channels Echo Depth (%) Mix Buffer Size 38 Volume Adiust Effects ...

Master your own CDs

t's never been easier or cheaper to cut your own audio CDs SoundStudio cuts through a mess of expensive and long-winded processes ellowing you to create stereo 16bit audio files at 44.1kHz without the need for any external equipment at all. These files can then be used directly to cut audio CDs using a CD-ROM writer and some suitable software. That's got to be the uitimate digital mastering system, no mixers. no digital-analogua-digital conversions. and you end up with a perfect recording that can be replayed on any domestic CD player And yes, you can do this with any Arriga (expect a 1.3 machine), even if it has no 16-bit sound card

How it works

using special

CD writing

This is all possible thanks to the 'mixing' stage in which SoundStudio prepares its final sound date to be sent to a specified destination. As was explained earlier, this is a stream of sound sample date. When this is passed to the Amiga sound chip or a 16-bit card, It's turned into sound that you can hear. When it's passed to a file on a disk, it's written as one long sound sample file. Music la stored on audio CDs in pretty much the same way, so in effect you dump the music to your hard disk or any other storage device. than copy it to the CD

M Vertzain

software (a number of CD writing softwere packages are available in shareware and commercial form).

It makes no difference whether you have a sound card or not, because the data is sent streight to your specified hard drive destination. The speed of your Amina is also irrelevant in this case

Normally a slow Amiga wouldn't be able to output at 44.1kHz as the CPU wouldn't be able to keep up. However, when you're writing a file on disk. SoundStudio has built-in time correction so to account for different CPU data transfer rates. So even though it might take 20 minutes to write a complex module that lasted five minutes when played in real time, the resulting file on the hard drive would play back at exactly the right speed when put onto an

CD writers

Until very recently, the idea of adding a CD writer to an Amiga would have been reserved for the affluent minority. That's all changed now, as for one reason or another, over the last year prices of CD writers have been plummeted. It's now possible to pick up an internal CD writer drive for around £300 and you can take your pick from a range of CD writing software too

CD writers look just like normal CD-ROM drives. They can read CD-ROMs but of course they can also , write them. These drives use a special type of blank CD which

can be

40201

Written to once only You can't go back and delete or copy over anything once you've 'burned' a blank CD. These blanks cost enything from £5 to £20 each depending on how many you buy, the brand, and where you get them from Blank CDs are very temperamental things and have a tendency to 'blow out' dunna the writing process if they're not happy It's vital that a blank is clean and free of dust when it's put into the CD writer. Even if dirt doesn't stop it blowing out during burning, it will deflect the leser as it writes, leading to a bed master that probably won't work

Don't forget Bearing in mind that blank CDs aren't

cheap and their fussy nature, it's important that you have everything set up properly before you start to write one. You cen't abort half way through and have another go on the same CD - if you stop a CD writing in mid-flow it will be rendered useless. When running out your hard disk file from SoundStudio, make sure you select the correct file format (check with your CD writing software for formats it can deal with) Also make sure you have the mix rate set to 44 1kHz and that you output a storeo file. If you have the mix rate incorrectly set, the track will play back at the wrong spead or not at all

Another point to keep in mind is the volume adjustment setting. This is found in the mix settings section and allows you to after the 'scaling' of the channels to get the best output volume level. In other words, it's like an overall volume control I you set it too high the sound will be distorted where the wavelorm clips If it's too low then the sound will be quiet, lacking in definition and more inclined to sampling noise, not using the full range of the 16-bit bandwidth. Always turn smoothing on when running out a module to hard disk When it's played back, either through a 16-bit card or from an audio CD, you might notice that it seems to have less treble content than when you played it in real-

time without smoothing. This is indeed the case, but the treble that has gone is treble that shouldn't

have been there in the first place Remember this when setting your relative instrument volume levels and editing samples You may find it best to balance it so that it sounds slightly treble-heavy when played without

smoothing There are a number of CD writer softwere packages available and in development for the Amiga Most are currently undergoing fairly major upprades at the moment. We'll be taking a close look at some of the

best of these very sonn

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MIDI sequencing



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hare's no reason why your music setup should start and and with your Amiga Contrary to popular belief. SoundStudio is Idaal for anyone who wants to run a MIDI system from their Amiga MIDI instruments and Amiga samples cen be apenlessly Integrated in the same growsts.

most from your early want to get the most from your Amigs, a combination of samples and MIDI instruments is definite.

by the way to go
To demonstrate this, the first audio

track on this month's CD adition (actually track 2, track 1 is CD-ROM data) was created with SoundStudio and a modest MIDI system It can be played on any hi-fi CD player or CD-ROM drive.

CD audio track Track 2, the first audio track on this

month's CD-ROM adition, is called Graffe' and was created by myself using a combination of MIDI instruments and 8-bit Amige samples, all sequenced and necorded live in a single pass

The entire set-up used to make it consisted of the following an Amiga, Omaga Projects Sound Enhancar, MiDl interface, Novation BassStation analogue synth, Cheetah MSS analogue synth module, Yamaha FX 500 stereo effects processor, fostex X 26 cassatte multitrack/mixer, DCC 730

The kit list All the Amiga samples were passed

prough the Sound Enhancer, a small unit that boosts base and treble frequencies. Amigo samples were used for the zeppy techno sounds at the very start, the percussion, stabs and stop effects, and the repeating siren type loop

The BessStation supplied the bassline

while the Cheetah MS6 was used for the synth string chord (you want a whole chord sequence? Maybe next time ...) Those were combined with the so-innut mixer section of the Fostex X 26 cassette multitracker (no multi-tracking or record-Ing was done with the X-26 cassette deck! Via the single stareo effects loo of the X-26 mixer, the BassStation, MS6 and two channels of Amiga samples were all processed in varying amounts with the Yamaha FX 500 unit. The channe's of Amiga samples containing the bass drum and a few other bits and pieces were left 'dry' with no effects added Of course SoundStudio is quite capable of driving much bigger studio

set-ups than this

The main output from the more was
recorded onto Digital Compact Cassette
on a DCC 730. This was then transferred

to hard disk via a Toccata 16-bit sampler card and then written to the master CD

Production notes Due to demends of having to put a mage.

zine together this month as well as messing around in the studio land other larme excuses), it was written and then slightly removed in a total of around four to five hours. Not surprisingly there are a few production glitches, so let's take a look at them and see how they occurred. Setting the relative lewis of each sound.

sent to the affect processor was tricky, especially as the sound returned from the effects box was very strong in a narrow band of high frequencies. This is good for 'ensoing up' the sound, but ton much leads to a hard tinny overtone. During the dropout section in the middle, the intensity is raised by sending more of the siren-type loop to the effects box. Dunng the live mix I accidentally started twiddling the wrong knob (the Cheetah MS6 channel) which went uncorrected. The result of this is the single note from the MS6 coming through at too high a volume all of a sudden once the track builds up again, which was then rather hastily turned back down again as the mistake became apparent.

Overall equalisation levels seem to be about right according to a couple tests on different systems. The mix is not helped by the reverb and distortion on the bassline Although it makes it more moody than just tha 'dry' sound from the synth, it also has the effect of making it less clear and defined in its role as a basslina. A gameral rule of thumb with basslines is not to put them through heavy ravarb effects, but then again if it sounds right, go with it. All the sound sources were mono, so the stereo echo/distortion effect is useful for adding some space to the overall sound. It goes on quite a bit too - eight minutes is a bit drawn out for home listening but it's designed to be a trancey club track, hence the length and the breakdown to just the beats at the end. So now it's your turn,

Expand and deliver

Onca you start adding extra kit to your core Amiga systam you won't be able to stop. Hera's a quick list of some of the main Items you could consider, and what they'll do for you.

MIXER This is essential to combine all your sound sources into a single starse signal. You can new choose from a wide range of quality small mixers priced between £150 and £20.

MASTER RECORDER. There are a number of options here. The most populer is DAT (starts at reound £400), DCC is good for those on a very tight budget £249). Sound module. Medarn multi-timbral sound modules come pecked with ell kinds of sounds and usually have their own effects processors built-in. Prices start areand £200.

ORUM MACHINE. Not se popular as they used to be since the rise of the sampler and sound modules with built-in drum kits, but a good one will serve you well. Cheaper models swellable for around £150.

FFFFETS PROFESSIB Add reverts ache distortion floors and other special effect.

Cheepse moters sverigate are around z.tou. EFFECTS PROESSOR. Add revarb, eche, (elstortion, flenge end ether special effects to your sounds to give them more cherecter and ganarel shean. Around £200 will get you a oeod starter model.

CONTROLLES REYBOARD. Not normally a priority purchase for a small system, but meet est-ups will eventually include one of these. Makes no sound but controls other sound medules that have no keyboard. Expect to pay eround £200 upwards.



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Printers: Problem solved!

At CU Amiga Magazine we get more enquiries on printers than any other subject. Which should I buy? Why doesn't it work? Can I get a driver for this? Printer guru Larry Hickmott is here with all the facts.

I had to name one thing people do with computers that is sure to give them grey heirs, it would be printing. I know from expenence, because I've now got as many gray hairs as a certain well known ax football manager by the name of Kevin Keegen! This aging process can be avoided by putting in a little homework, such as reading CU Amiga Megazinel I think we all know that a ponter is one of the first 'extres' that computer users buy for their mechine, but do you really know much shout what makes it all trok?

Possibly not, because in this em of plug and play, what most people want is to take the printer home, plug it in end then start ponting. Not only that, from the letters I get, it seems most people expect the print button. Unfortunately, printer technology doesn't work like that on the Amma - yet

When it comes to using a printer on your Amrga you need to understand not only how your Amiga works with a printer, but also how the printer itself pperates Only today yet enother letter pooped through my letter box from an Amiga user telling me in the best scap opera tradition, how pages don't print in the right place on the paper and how they can't get their printer to fill the paper

Such questions shouldn't need to be asked once you've read this erticle to understand more about your machine For him, and all you other printer users out there over the next faw pages, I'll tell you what you need to know to solve



A If was want to make were the elements as you pure priot in the right place on paper, those you would to asker the cornect berdinese margues by your printer sets the Print Azen godgets in Final Mintur, also called Print Bardons in Wardworth.

Just your type Like people not all printers are made that same. You have different categories of printers as well as different types within

each category Take ink-jets. Not all Ink-jets are the same because you have ones that print in port in monochrome, high resolution models. A4 end A3 formats and the list goes on. No wonder people start pulling their heir (only the giey ones of course) out at the wide array of choices there are

these days Dot matrix

Jot-matrix printers also known as impact printers and pin ponters. This antiqueted technology has limited uses these days because although dot matrix printers are cheap, so are ink-jets and the price advantage the dot matrix ponter once had over an ink jot has almost disappeared Like typewriters, pin printers rely on libbons to make the imprassion on the page but colour ribbons quickly become daty which means the images they produce are also dirty. This isn't so much of a problem with black and white ones

Buy one of these printers if you have a specific need for it like producing tractor fed stationery (like labels) or multi-part. stationery (like invoicing) or, like me, you're really strapped for cash lout the sob stones - Ed)

if however, you want a phriter for dey-today use then the ink jet printer is the ideal buy Whether it's producing colour coded invoices that bring a smile to an accountant's face or CD covers that look like they've been done on a printing press, the ink-jet is certamly a versatile machina. And with new modals capable of 1440 dpi just Glunched by Epson, new stndes are being made to create the perfect printer

Lagor printers

In recent years though, the price of a top quality laser has slowly crept downwards, affecting inkliet sales in the process These days, lasers are affordable by most computer owners, not just 'well to do' Amiga paopla

The only drawback in buying e leser is that the output is monochrome, but if it's lots of copies you want, then a LaserJet is

Applications for a laser ere more limited then those for inkliets but if you're into DTP, then you'll probably have a very good reason for splashing out on one.

Other types

As well as the three main types of printers listed above, there are others which ere useful for specialist types of work. The mam ones that spring to mind are the thermal wax and solid link type printers. like the Star SJ-144 and Citizen PRINTiva 600C. These ere not printers that should be chosen for day to day work like printing letters, due to their higher running costs

These are more suited for doing T-Shirts and punting on objects that other types of printers won't touch. The PRINTiva 600C, for example, is very use ful when printing on surfaces a wet link printer won't, like glossy card and some art papers. The PRINTive can also print

"When it comes to using e printer on vour Amiga, vou need to understand not only how your Amige works with e printer, but also how the printer

itself operates."

Projection | Say W | Scott Said HA Tre drawSTUDIO

using metallic colours, something you cen't do with your gardan variety ink-jet Another type of printer that gets a

mentron from tima to time is the dye sub-Ilmstron printer, great for producing photographic work but little else if I was to pick one area where the dye sub printer does have a place for Arniga owners, it's in photography especially for the serious amateur or professional who wents to teke advantage of digital processing and produce results close to that achieved on

beth verticalli 86 Y94 C69 page priets no the paper, which for these кото под less griting almosals to prot in the

melti placa, ra e

Buying factors So far we've only touched on the cate-

gories of ponters there are Within each category are other sub divisions which can make life just as difficult when it comes to choosing a printer to sit along side your Arnige Take Epson for example They have just released a load of new Colour Stylus printers that are vary good Indeed and a significant improvement over

previous models The problem faced by you, the printer buyer, when new models like these ere



√ Yorkshowt's han beno papersailed by the Graphics Publisher to TorbePrint 5 which mill offew waiting

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A To restablish year printer's hydronic place a column doctore the whole to see the whole the whole hits around 81 when hits around 82 whole the whole hits around 82 whole the whole the

leunched, is that many suppliers, especially Amiga ones, still have old stock. So do you go for the new model or stick with a tried and trusted one?

The deciding fector will be heavily influenced by aveileble printer drivers. For exemple, I've already mentioned this super new printer from Epson that can output at 1440dpl. Now, at the moment no printer driver on the Amiga supports this resolution, but will do I expect in the near future.

Compatibility

The big quasition though is whether these mix Colura Skylus models will work with easting drivers in peckages like TurboPhrit and Studio II. In the past, I have found many new models have worked with slightly older drivers an example being the Skylus Soll worked with the Skylus II driver and televist Packard's SPO worked with an and televist Packard's SPO worked with an opinities's command sait IPCL, EscP2 and so on) is vary much the same.

That doesn't meen the Epson printers will work with existing software though because the significant point elbout the Epson printers is the increase miresolution which won't be supported for a while A case of watch this spece.

So when given the choice between rew and old, use some common sense and if in doubt, go with models you know will work with your Amige I'm sure your favounte Amige megazine will cover these new printers as they come out, letting you know if they work with current software and so on. worthwhile points to make a note of.

High resolution output (720dpt) takes a long time to print because there can be many megabytes of dete to send to the printer Sometimes this process can take many hours when printing

the printer Sometimes this process can take many hours when printing landscape pages • Printers like the Canon BJC-620 are more sonormical when it comes to replacing colour links that have run out because you only replace the colour used. Most

others printers have tricolour chambers and if one colour runs out, all three have to be replaced

The 800 senes printers from Hewlett-Packard ere very good for 600 dpi monochrome output but if found fine detailed colour images not as good as those from

chrome output but if found fine detailed colour irreges not as good as those from the 720 doi printers (Stylus 500 end BUC-820) If choosing a HP model, the current one is the 870CX (not the 620 Windows printer).

A four colour printer which uses a

 A four colour printer which uses a separate black carringle end a three colour carringle produces better output than a three colour one (no black certridge for colour output)

All now ponters require a separate printing inhiercoment package. Owners of Canon pinters can get such e- package for free from Canon while Epoon and Hewlett-Packard customers will need to pay £49 85 for theirs. Do not bother using stenderd Workbeand chivers, because I hever't seen erything yet that metches the commercial packages for gouldry and militability.

Skimping on proper software just means you are devaluing your printer and not announaging developers to create new drivers and so on for Amiga owners. In the end, we all lose by not supporting those supporting us

 Finally, buy an obscure brend printer to seve money and you could end up with a white elephant. Play sefe and buy a supported brend name.

A Packages the Studio II and Tarbol'rist am often wroughy described on only being printer-divers whose in fact, they provmed more. Her very personnel preto occas stations which help the net control to the more control. Driving the daisy
There are two parts to getting your
printer to work with your Amige. The
first is to get an appropriate cable. For
ninety nine parenet of people, that
means a Centronica parellal cabla.
These are the same as you would get
for consecting most PCs to a printer
and as such, are readily available in PC.

stores right round the world. The second thing required is mera complex. It's called a printer driver and what it does is convert the information being output by your Amiga applications into a language underatood by your printer. As you can imagine, each printer is going to have a different set of commands it uses to convert the information from a printer Into the Image on the paper. This is why you need different printer drivers and ones that ere up to date, because eitheugh an old LasarJet driver may drive a new LasarJet to some extent (because they are both PCL based), it's highly likely the output will be a lot werse then what the printer would produce if used with a decent sat of printer drivers. What's the point in apanding hundreds of pounds for duff eutput?

Within leads me to two packages that ere a must for every Amigo owner. One is called Studie It Professional (Rison 9500 223 669) end the other TurbePrint 5 (Witard Developments 9322 857 800). These peckages do two things. One is they provide the necessary printer driver so that your printer can understend the accession of the your printer can understend the accession of the your printer can understend the accession of the your printer can understend the secondly, they have enhanced preferences programs which are vital to gat the bast output these modern printers.

can produce. This is not a hard and fast rule and varies from printer to printer, but if I was buying a Hewlett-Packerd leser (or compatible). I would not for Studie It Professional whereas if I was getting a coleur lnk-jet, like an Epsor Stylus, I would go for TurboPrint. There are other points though to take into account. I'm told the Print Manager for TurbsPrint 5 (new called the Graphics Publisher) anables you to print mere than one image on the paga. Studio II Professional meanwhile has direct support for programs like PageStraem 3 and ImageFX 2.6, enabling you to improve the output you're likely to get from these applica tions. My advice is to talk to those selling the program and lind out which peck has the features you need.

Neither package is ahead of the geme in tarms of providing printer drivars for new printers tike the Styles 600 and 800, but you can bet, they will have drivers for these new modals soon after the printers' release.

p. Free view to time, you may posed to co-calificate the great heads on a Loans Styles with Stede II Professional will for you and the stiley

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Styles Color Complete Calibration E Sign Black/Color It Align Bi-Direction	Font Courier Frestine Script Sesan T Sesan T Cheracter Sel FC 858 FC 858 FC 858	Pitch ###################################	
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Larry's top 10 printers for the Amiga

1. Epson Colour Stylus 500

a The Egans Styles SSS is probably the hest

for heavy duty colour printing et high

It has the advantage of letting you

ment peckege called CanonStudio

3. Hewlett-Packard LaserJet SMP

much better than this Priced at around

senes has many great features. For non-

Postscript output, you'll need Studio II

00 more than the Colour Stylus but

6. Hawlett-Packard 870CXi

£700, this PostScript version of the 6

resolution, the BJC-620 is very desirable

explace a single coldur when it runs out

well as heving a free print enhance-

2. Canon BJC-620

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n PC

Authough now superseded by the fab but entested on the Amiga Stylus 800, the

Stylus 500 produces super black and white and is great value. Requires thrid party drivers

better then those from its beby brother. the DeskJet 690, which is getting long in the tooth despite recent improvements

5. Lasar Jet 5M Plus

mcredibly reliable engme, which keeps churning out prints day after day A little owners, but if you do e lot of DTP, this is

6. Hewlett-Packard LeserJet 5L Fancy a laser for less than £350? Then the LaserJet St. is worth a long hard look It mey be ugly and can't be upgraded to

PostScript, but the 5L is an ideal entry level mechine into the world of lasers

7. Epson Stylus 200

which makes it exceptional value for a monochrome printer and because you can upgrade it with the addition of en upgrada kit, if you're looking for an entry level printer this may well bart Don't forget you need a printer driver/ enhancement peckage which adds £50 to the price

8. Citizen PRINTive 600C

elmost in a category of its own and so comes top of the class. The PRINTive is a solid ink printer for doing T-Shrits, metallic colours and so on. A little expensive to run but because it can print on things normal ink-jets can't, it deserves a merition here

A. See of the changest inh-jets I've ever some in the Styles. 2011, a menochrome printer that can be appealed to colone with the addition of a volume bit.

9. Canon BJC-4200

Very popular with Amiga owners is the 4000 series of printers from Canon. The 4200 is the letest and with a price less then £250, it's good value, even if it isn't as good as the mighty 600 senes Canons

18. Canon 4550 you having to mortgage your house. Use it with CanonStudio or if you already have

▼ The Cours LJC-4933 is no AJ caselie



a. Otheruph is little pricary compared to the Epison Stylins the Conn. St.E. 425 in still a very marketide purchase serie 728 dpl supper sees also that can be individually replaced. It also leads nearly relieve. and bill similarly, he the newton sent and of unfavore and



r dri will

A spot of trouble shooting for your printer

On You can I lessen the time it takes from your page. The many and the page of the page of

Q. My page from the ink-jet has white lines across it.

A Use the printer's clean facility. The nozzlet in a pint head become clogged for one reason or enother, preventing introm getting to the paper it could also be a sign yout ink is about to run out. Try the clean function flist though sometimes the pint head just needs a clean.

■ Q How can I avoid dark lines across

the apply — The series are generally (not always) collect by overlapping attiful. Which you will be provided the series of the series many you have, the time store the series of the sea menory you have, the time series of these overlapping store sounds you cause in more than the series of these overlapping store sounds you cause in more stored to the series of these overlapping stored sounds you cause in many on what practice will be conservated of these overlapping and you stored the process of the series of the s

My page doesn't print in the right place on the paper. A This is definitely a preterences prob-

Iom What you need to do a set-stable jour, you want to the property of the pr

But even with that, I found different sectings (such as Plage Sound) water sequent for different types of printers, executing for different types of printers, executing the section of th

Q I want to print on said but the

manual says I can't.

A The manual says that because it is not recommended because if you do end you damage the print head, then you may

invalidate your warranty. However, if you know that you are going to be doing this type of work before you buy a printer, then look to a heavy duty printer, that has a near straight paper path. A number of leasers have these, as do some mixers like

near straight paper path. A number of lesers have these, as do some microtalike the 600 senes Canons (not straight, but faltry close)

The best place to go for laformation on

The best place to go for information on it is subject in the manifectures' help lime. Don't bother manforming it's for an Armas because you'll only confusa from but ack which printers do have settings to card an thicker papers it's also worth finding what damage can occur if used with a particular model so you can better assess the nisk-

Q I bought a DeskJat 850 and it mentions in the manual about aligning

the print heads. How can I do this?

A TurboPrint has a utility for this, it is a simple enough process but you will need the proper software to do it. Studio it has something similar for the Stylus.

■ Q I am looking at getting a Hewlett-Packard 870CXi DaskJat. In there are Amiga printer driver for it?

A Both TurboPrint 4.1 and Studio II drive this using the DJ-850 driver I am lead to believe TurboPrint 5 has a driver for this model as well.

Q I am tooking at buying a laser printal. Should gar a PostScript one? A fit you can afford it, certainly I wouldn't buy a leser that did not have PostScript because there ere many instances where PostScript output is

preferable to that from printer preferences it is, in most cases, quicker too

text, does it take so long to print?

A Providing you are printing black text, make sure you have selected bleck and what in the printer set up function you explication. Printing anything including just text, takes time because an image of the page is created in memory at the resolution you have chosen and then dumped to the printer in stips.

The other alternative is to use a text based word processor like Protext where the text is sent to the printer, not an image of the page as mantened above. You main obstacle with Protext is finding a copy as I don't know if anyone is still supporting the Amine version.

■ Q Are printers for Macintoshes comnatible with Amions?

Ain general, no it is possible to get some to work with an Arrige but you would be best advised if you have to ask this question, to sebt to "PC" type printers which work fine on Arrigas. There are exceptions of course like GDI printers which need a PC to control them. See the top 10 (page 31) for a list of decent printers to choose from

The letest DeskJets have a photographic mode. Will that mean I can

antit photographs?

All inlysts let you print photographic material. This new photographic six colous print mode where you replace the black cartridge with another coloni one didn't seem to make a lot of difference when used on my Arings. We may test this mitter that there with the future west Turk-Peris.

Q. Can you tell me how to get rid of the 'blockiness' that I get when I print my pictures?

my picture?

A Preliation or blockness as you call
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Something else you can do is make sure that when you create such images, you have anti-allesing on. This will help improve the quelity but above all, be very careful when scaling bitmap images.

How can I use the scalable fonts in my printer for multiple fonts on the one page? Unless you have a text based word.

when the spin case is the decide wave very fine let you select the infloredual scale able spindaces in your prints, you can't some other applications like Workers Some other applications like Workers Workers' is support does not seem as support to users of Fricaria's Frinting enhancement packages give you some support to users of Fricaria's Frinting enhancement packages give you some support to users of Fricaria's Frinting enhancement packages give you some support to users of Fricaria's Frinting enhancement packages give you some support to users of Fricaria's enhancement packages and must package in the Fricaria that access these forties of any what must peat and comes when you demand any comes with you demand any comes with you demand packages.

What is generally instanderstood, is that when you use the scaledie fortist or a page fixe PageStrasm. Wordworth and Final Whete, bress frotts are on the Amage, not in the printe, and the image of the page is generated within the Amages memory and outbut as a graphus to the printer Programs that use the printer's integral borts, are wouting in text mode with no graphus.

I could go on for forever about my favourite subject but I've got to call a halt somewhere. We should have some printer reviews soon, so until then.



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Previews

- **36 Virtual Karting Deluxe**
- 36 Max Rally
- 37 Ffigy

Reviews

- 38 Burnout
- **42 JETPilot**
- 43 XP8
- **44** Budget Games

Tips & Guides

- 46 Vampyra
- 49 Snip Tips





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Previews

Max Rally

■ Oue for release: TBA ■ Publisher: Fortress ■ © 0181 988 8888

or such a simple and tochnicelly basic theme, the top-down lacing game has provan a surprisingly popular end managed to hold its own even in these devs of texture-mapped 3D super consoles. While Skidmarks and Xfreme Racing marked a

move away from the genre. Max Rally is set to bring it right backup to date. Fortress is the davelopment team habind Max Rally. This is

Fortress is the development team behind Max Rally This is their flist commercial game which they plan to publish themselves

and sell through
meil-order So
whity white
enother
top-down
racer
whan the
likes of
Overdrive
and Roedkill
seams fo

have it covered?

Basically because

Fortress wanted to
edvance the formula
further still. To this
end, Max Rally takes
place over 30 tracks.

end across four terroins. Fortress promise features such as four-player link up (definitely a good thing) which will have its own track called. The Ottack called. The Ottack called.

from six different char-

acters and have the

ability to alter your

vahicla's direction in mid-flight after jumping ecross e ramp. Usuel options such as racing against the clock and computer cars in various

chempionships are elso planned.
Mex Relly will run on all.
Amigas with 1.5Mb and should retail at 614.99 It is not far from baing finished so we hope to have a review very soon.

Merk Forbes.





Virtual Karting Deluxe

■ DFR: TBA ■ Publisher: OTM ■ © 01827 312 302

ollowing on from Virtual Karting, OTM's next recting release from the same Itelian suther Fabrio Bizzetti is Virtual Karting Dolluke Promising to be more playabla than its pradecession of the Indian Confession of the Indi

another six tracks which should be wider and longer then the onigned and have lots of twists and furns The original was a first in

terms of the fest 3D graphics, but the handling of the kert end the nerrow tracks made it virtually unplayable. The



new version hopes to change all that Judging from the damo, I'm happy to report that Virtuel Karting Deluxe's control mathod of the kert has been tremendously improved Apart from that.

much of the original game seems to be there You can select to play the game is an a vanety of view points, while at the seme time depending on the power of your Amps, you can select the usual I242 or botter still, 241 graphics resolution which so only available in 3D mode, but provides the player with some tastiv swell treats:

Deluxe isn't intended as a direct sequel, more like an enhanced version to keap you interested until Virtuel Karting 2 comes out. In the meantime.





you'll have to weit, as the game's nearly finished. We will definitely review Virtuel Karting Daluxe as soon as possible. ■ Mark Forbee.

e for release: March | Publisher: Effigy Software **■ ② 01526 834020**

ou may remember in an interview with CU Amiga Magezine (December 96 issue). Effigy Software described their Arriga gemes Faced with a declinmg market they decided that dual format CDs offered a good solution Finball Prelude was their first foray into that market and Ffigy was planned as the next

That was a couple of months that they describe as a *30 slepstick extravagenza' Effigy have been busy concentrating on LightWave for some of the main

character's movements So where does the slapstick bit come in?



environment and go through the puzzle/edventure geme epreading happiness and general kudos all These rendered screens look

prest but we'll have to wart to see how the ectual game turns out It is a long way off being finished still but med assured we'll be there







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Burnout

■ Price: £19.99 ■ Publisher: Vulcan © 01705 670269 ■ http://www.vulcan.co.uk

Fans of the film Crash might enjoy this because that's all the cars do in this geme. Not a race in sight.

n the ruins of postapocalypse society movitably the first instinct of any survivors would be to strap spikes onto their cars end crash into each other at high velocities. Things like rebuilding society. growing food and so on might be more sensible but people have seen too many Sci-Fi movies to escape this fate. So set in 2045, Burnout puts you at the wheels of one of these cars as you bid for fame and fortune in the sporting arenas

Burnout has been generating guite a lot of interest. First of all it is Vulcan Software's first departure away from cetering for all Amigas Instead of running on all Amigas with 1Mb as usual Burnout is AGA only. Another rea son behind the interest is not only does it have, to quote the advertising, "100% fully rendered in game graphics... six channels of High Diffinition sound effects. Hiris Laced 256 gols @ 25fps Newtonian Artificial

Intelligence ." etc . it also sounds like Wipeout, the futuristic racer which is making waves on ahem other platforms But a racing game it isn't.

Crash Burnout is a demolition derby You choose your car from enter the arena (also a choice of four, but



with your opponents, which you do by remming into them until they explode, knocking them off e platform so that they plummet to a distant fete

The winner gets the big cash prize, the runners up, miraculously report to fight agen, get smaller prizes. This can be spent enhancing your car, and therefore your chances in the next battle You can spend your ill-gotten gains on improving your engine. huving a reverse gear

(very useful when you find yourself on the edge of a precipical, fitting your car with spikes etc. There

are also cheaper

extra meaty slep to

an opponent, or

which gives an

games that crop up throughout the game but they don't have nay indication of what you are supposed to be doing in them. Your car either shoots forward or stalls Very strange one-off weapons. such as the stinger,

The game comes on savan disks, which may be less then a large graphic adventure, but feels e lot longer once you have had to install the thing Installation is via Workbench only, each disk having to be opened and the

grey-out, which makes the action

disappear into a dense fog white

you escape, or more likely blun-

der off a ledge in the confusion

sion there are several bonus

Also edding to the general confu-



A West who graphics. Fity about the gameping. The hig cylinder type throug shown have in going to be year.



A like usual sespects ore fixed up for your parasal. We've got four likely looking releate look keen



A line's year spring acreen looking all secody and



A. The mystical posterio where all the action takes place Spening

individual files drapped from their libophes into the appropriate folders. After all that, the hies have to be unpacked by double, checking on asch on a Event Pivician hate writing proper installers, a custom Ampag050 routhe could do everything for you about ten turnes assize and ten times fester. It would have taken little longer to write as it will take every buyer to install the thing. This is very boor to install the thing.

eels d to Piace of art
Once it is up and running, everything bagins to look reay. The
Intro graphics and ascellent, and
the options scraams all bode will
for the game, offaring up to four
players via keyboard, pysticks
and pystick scrapters. Aura
Interactor output end cars with
winds ringing statistics. Than the
geometric states and it all goos wrong
organisates but they only move a
geometric but they only move a

few posis up and down and even than that have a tendancy to strand you off-acreen. The vahicle spreas are all menly disagned fully rendered 3D objects but that jeek ammation and don't show the effects of damage, indeed the first thing that really tells you your car is disregad is when it vameshes with a too. No district or enything mechanics, I seam to rareameter notions of adual and opposite reactions of adual and opposite reactions of adual and opposite

clear avidence of released alastic potential energy which must maen that , hmm, the cers are made of rubber!

Shareware Thara is a lot about

Burnout that makes you think Public Demail, Demn fine PD admittedly, but the gameplay just never seems to go anywhere, and amusing as the idea may be, it just depart it lest. Thare is no real prograssion in the game, no increase in the difficulty, and very mant. Even multiplayer action didn't same fun, and looking at those graphics won't keep you happy for ever



I hate to sound discouraging, after all releases like this for higher spac, machines are the only way the Ameja games scena has a snowball's chance but that's the way it goes Pretty AGA graphics just aren't enough.

Andrew Korn







And a service of the service of the

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MARA COLLECTION

JETPilot

Price: £16.99 Publisher: Vulcan Software © 01705 6703

Yikesi This ain't no gamel There are far too many keys and not anough aliens.

hey're calling it 'The Pinnacle of Restistio Flight Simulation's They' in this case are Vulcan Software the gerne's pub-Irsher, so perhaps that's not so aurprising JETPilot is the first Amiga flight sim to have appeared for some years now Meny would say Amigs flight sims peaked with F-29 Reteliator or the Microprose offennos for those who like a bit more depth. Alas the near mythical TFX has still not appeared and so it seems a logical step that one of the Amiga's most prolific game publishers should rectify the situetion But can it really live up to that bold opening claim?



JETPMs comes with a frange of options designed to get if running at a reasonable speed on env Armya from a besox 4500 to a fast 100-based Armiga or better. Even so, 'fast' is not a word that springs to mind however you have the game sotup. The game stay. The game stay in a facility of the property of



JETFilet to full of plantation, maps and colculations. Shows ber



out too many problems. If it's pretty graphics and loads of largy scenery you're after, you're likely to be disappointed. However, if you want a flight sim you can sit in front of with a pot of tea and a tinker with fina tungs and options for hours on.

end, it's a different story While the 3D angine leaves a lot to be desired, e lot of work has obviously gone into making the vienous statistics as realistic as possible (but then I'm not en RAF fighter glott, so finishly I'm just taking the word or in the all the distals are right do you know the socielization rate of sny of those plena?)

to prectice all the alaments of the garne, from simple tasks such as landmas, takeoffs and navigetional training to more involved tasks such as ILS and auto approach, reder prectice, missile firing, air-to-air-gunnery, end thrilling abbraviated spills such as DACT, GEI VIS and CGA prectice Bafore you can get down to the game for real you have to first prove yourself by completing 21 exercises (agen, just to prove that you do know how to land, etc I and then it's combat time

Vulcans have

included the option

Sadstick

You're never up against overwhething odds, instead choosing from a number of combat options where you cert face up to two opponents alone before wingman become obligatory, Of course, if you're a social creature, you'll want to go up against twolvewant to go up against twolvetone your shoulder at you'r team mater's button.

JETPilot isn't about to win any awards for the most stylish geme ever but it should satisfy flight fenatics not so concerned about heart-stopping and actibatics and quin-ho bisstimp edition You have control you could think of, so after the strengtheir certificial could be weather conditions or stating location, or simply muck about with the vierous cerema views, watching from above, below, make or even from nearby airfields (and in case you re wondering, you're the little black spot).

Happystick

You've got radio communications (the comical old Amige voice synth) 27 sirfields around Europe to visit, tons of HUD and navigational aids and maps, and the possibility of future date disk expensions.

Compared to the classics mentoned earlier, JETPliot dosan't measure up too well if you wort a new flight son then by all means take a look, but you may well find deeper, more excring alternativas in the bargain bins and budget sections (see page 44) III.





All Amigas

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Price: £14.99 Publisher: Effigy Software © 01526 834020

ou may remember XP8 in its AGA form a fast scrolling smooth shoot 'em up in the style of shee with a bit of Stardust flown in While it didn't score up

the same dizzy heights as the

aloremantioned gemes it still received a healthy 72% rating A £19 99 price teg and top much sameability in the gemeplay bringing its acore down slightly

This all-Amigas version is much

the same as the AGA one



each mission. However, you've got to evold or blast away all manner of meteorites/ space type things that are trying to kill you

along the way. Luckily, you don't have to rely on your dodging skills alone as you've lots of power ups be had Although the same criticism of

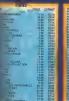
samesbilty could be levelled this version of XPB It still runs and scrolls very smoothly. The music is nothing to write home about but I'm pleased to say it's now at the lower piece of £14 99

It's been a long time sinca I've played a vertical shoot 'em up and I must say that I really enjoyed this one, it's also good to see software companies still producing games for ell Amiga owners. Lisa Collins











IN THE PRODUCTS OF CONTROL OF THE PRODUCT OF THE PR



Budget Games

MicroProse re-releases from Guildhall Leisure: 01302 890000

A bunch of re-released flight sims come under the gaza of Mark Forbes.

B17 FLYING FORTRESS

When B17 was released back in 1992 it scored in the high eighties. Five years on and Amige flight sims really heven't progressed much further. Now it's on offer easin only helf the price

Unlike many of Microprose's best known flight eime, B17 is not set in the present day, but in World Wer 2 when pliots had none of the computerised guidence systems and weapons of today. As such, it's a rether different kettle of fish to the likes of Gunehip 2000 and F15 Strike Equie

Most of the traditional features in B17 are there like bombing from the skies and doglighting with the enemy sir petrols. The 25 missions that must be completed successfully are extremely involving and lend a solid 'meaty' feel to the gemeplay, lifting it above a mare shoot 'em up or technical reproduction of an old war plane.

While B17 is a very sophisticated game in terms of detail and depth, it lacks a little speed. Unfortunately further delays come from floppy disk loading and disk swops - no, it's not hard disk instellable!

What B17 lacks in whizz-bang gadgets and excitement, it makes up for with its unique cherecter end etmosphere. The clinical computerised world of the modern flight slm can leave the player feeling like something of an observer, while B17 offers plenty for those who like to get lost in a geme.

DOGFIGHT



on the Amige has

got to be the flight eim. The only good ones I cen think of that have been memorable were: Combat Air Petrol, F-29 Retalistor, Gunship 2000, Knights of the Sky (please release this one Guildhall) and that's it. Unfortunately, TFX was never released elthough in my humble opinion it could have been the greatest flight eim of ell-time on the Amige, but that's enother story.

Dogfight is not in my list of great flight sims. It's truly awful. I'm not being overly hersh, I never liked it when it was released by Microprose first time round. From the early beginnings of the loading Dogfight it's easy to see that a lot of effort has been piled into Dogfight's presentation screens and not arough into the main program. It's the classic, nice box, nice menual, shama about the game though!

Once you've seen the impressive title peas and listened to the jolly wer-time music, along with the mission briefing, you'll be fooled into thinking that Doglight is a great game but it's not. The biggest problem is the graphics and sound. The visuals move very slowly and are annoyingly jerky, and the poor sound effects feil to convey any of the excitement you would expect to experience in a real dog fight.

Even if you ignore the both the grephics and sonics, Doglight is really hadly programmed too. Everything that's tadious and inept about shoot 'em up flight aims can be found in this slow, dull geme. Dogfight just crewls along se you try to benk left end right to get your enemy in your sights and try to launch a misaile or fire connon rounds to destroy them At the end of the day what we seem to have here is a poor PC

to Amigs conversion that hee been so bedly executed not even dle-hard sim fens would went this. If you're desperate for a high quality aim why not save your

money end get Gunship 2000. If you do get Dogfight, just don't expect to be playing



STARLORD

Here's a twist if I ever did see one. Why not mehe another flight sim but only this time set It in space? Not altogether en original idea, but Elita, Frontler, and Wing Commander meneged to do it quite well! SterLard doesn't

The ectual flight-based action is OK but the emphasis is placed more on stretegy and having to remember plenty of heyboard controls. However, it has no depth and is bor-Ing. A flight aim In space? A combat stratagy game in space? It falls both ways unfortunately, as it ands up doing neither et all well. The graphics eren't great by any means and the sudio slee has a primitive sound to it. The gamepley is muddled and confusing in pieces and it takes a great deel of effort to get enywhere end to figure out just what's going on.

Sterlard is by no meens on eccential purchasa, despite the cheeper price. You'd he better off looking for Frontier or Wing Commender Instead.

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BOOKS



They seek me here, they seek me there, hut if you've got a problem then this is the only place where you'll find the girl that knows all the answers.

Elvira 2 - Jaws of Cerberus

I'm stuck, in fact I'm really stuck I don't know what I heed or even where to stert fooking for the Freezing Blede Spell, the Bind Demon and the Resurrect Spell I late on the steril stoned help to get nd of the Vampire at the top of the house

Devid Jorge, Portugel.

The Ingredients for the Freezing Blade Spell are: the pea and kafe from the meal locker. Use this along with the Bless Spell are the dagger from the scond twest and you'll have a very powerful weapon. The Blund Demon Spell requires the rope from the bottom of the lake tu the Swider Cans.

The Resurrect Spell is used at the end of the game and for that you'll need a brain, heart, scalp, eggs and a prayer book.

If you use the uning fork to thatter the skylight the result will get rid of the Vampies foe you. I'm oot too sure i shauld be telling you that bit. I don't wont anyone getting ideas. By the way is that a tuning fork in your pocket, or are you just pleased to see me?

Velhalla 3

I've been stuck on level three of this greet game for ages but I'm too chicken to ask my mates for help I have no idea what to do, I

Adventure Helpline

have a silver plate gethers (no moss), run deep, saves nine and a stealth potion.

Richard Smith, Essex.

Well I can certainly move you an from where you are. Go down the stairs from the point where you picked up the silver plate, then go west to a row of four tobles and drop the plate on oue of them.

Go east as far as you cao, down the stairs, then down onather set to the cost. At the bottom turn west to where you'll see n butterfly. Stand two steps away from it und drink the stealth potion. Naw you can creep forward and nick up the butterfly.

Head back to the Bug Case and drop the butterfly on it to get a crown. Drop the crown on the tomb of Ivan the Terrible to get a key which will open a chest containing a New Peans.

New Peany.

Just in case things don't turn ant
right for you, here's the level code —
TOHOT (A bit like me reatty.)

Space Quest IV I'm stuck in the time zone on Galexy Galleris I've hidden in the Redio Shack store to get pest the policemen but I can't get pest the one which is waiting at the Monolith Burger store

I have broken the Astro Chicken machine in the arcade if that helps. I've got lots of stuff, but I need to get back to the time machine. Whet exactly do I do now?

Paul Littlewood, Norwich.

The only way you could have gotten this fur is by walking around the shopping mall deested in women's clothes. I'm shocked. It appears that what your friends say about you is true after all.

t dan't think you've really missed nnything, you just need to do o betier job of dadging the police at the end of this section.

When you you arrive at the mall gick up the ATM card. Go to Socks

and huy some clother. Go to Monolith Burgers and get a job there. You coo skip the arcade sequence if you want.

Aftee getting money from the job mad put the ATM card into the matchine. Also pick by the ciger butt. After fatling the ID test go to Sacks and buy some women's clother. Go back to the ATM machine and withdraw all the money. Go into the software store, look at the discount stuffs and buy the SQ4 handbook. You have to more things around to

Go to Radio Shack oud buy a PocketPal connector. Next, so back to Sacks and go late the dressing room to chooge back to Rogee Wike, Go into the strade and wait for the Sequel Police to come. Being pursued, mare around aid of the diff fewent areas. Drift oround and wait for the Police and even after you. When they do, go down quickly and

go bock into the arcades. Read the hindbook to get the first three digits of a code and open the paper (from the nest) to get the second half. Enter the time happer and type (a the code.

Innocent Until Caught

I'm pulling my hair out by the roots trying to find something to reveal the leser beams in the bank. I know I need the bonds from the bank vault, so could you please help me with this frustrating predicament?

Tim Bromley, Moreayalde.

Well t do know that the nurser lies with a bag of flour, a mushroom us a fis. Does that hetp? And from what I can see you have neithee of these items, so let's start there.

You get the flour from the sergeant to the police station. See these are some nice policemen, you just need to flutter your eyelashes and speak nicely to them. The mushroom is beside a fence ueoe the hill. You need to do a but of work to get o

fly. Go to the hot dog stand there you should get a hot dog and then fift yone jar with mayonnesse. Replace the cap on the jar, You can now move towards the fly and use the cap to conture it.

That's all you need to know for now, t'th let you wrestle with these three ingredients in the bank vanit to solve the puzzle there.

The Secret of Monkey Island

I'm stuck on Monkey Island I don't know what to do as I can't get through the creaking door on boald the ghost ship without the noise slarting the crew Please help me?

Mrs F.E. Mouiton, Esses.

You obviously need a bit of grease to make things go smoothly and t know

just the place to get some.
First find the ghost feather which
is lying acm some chickens the a nue
it to tickle the foot of the steeping
erw member until the dropy his jug
of grog. You can now use this
grog with the dich in the room with
the rats. Once the rats get stoshed
you'll be table to pick up some groose
which is there.

If you've got a little problem with your favourite RPG or adventure game and would like Vamp to belp you out, drop a line to: Vampyra, CU Amiga

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Snip Tips



Yee-haw and howdy pardners! Things have been mighty quiet on the ranch but thenks to those Ocean Hit Squed-ers, there are et least free games and top tips abound. Er ... right.

HEIMDALL 2 Core Design

Jonathan Jonny Drain (end isn't That a hilarious nickname!) sont in pages of cheets, but considering most were for games pider than me (end I'm tremendously ald) I thought I'd just pick out this juicy west in case folks didn't know it already Besically, to grin invinciook like a 'C' and a 'funny C Fairly abviously, it's well worth mucking about with runes to find different effects, and if you die, simply create or buy mana pations, resurract the player and then take the mana potion

CAPITAL PUNISHMENT

Clich Boom nt i'm Tege Kailsen, and I'm from Norwayl" And vary nice too Yes, our chums across the sea have been at it again, and young Tene has just found the secret moves and wants to shere them with us. Press the fire button three times and then move the joystick in any direction for a new move or an automatic combination (like kick, depend on the character in use but they do all work and try fue. fire, fire, down with Carben Aledge for a body roll Grirl

DUNGEON **MASTER 2**

Interpley m indebted to a Mr S. Haining of Hartlepgol, for a rather splendid profit-making tip for the epic HPG start the geme, pick your three heroes and leave vie the ladder Move the table and pick up the gear in the alcove, including the key Now select your best weapons and use the key on the door Kill the monsters outside end if you welk eround you'll find a shop selling food. Go in and pull the table back and pick up the gear, which should include a key Go back outside and find the door with the engraving. Use the key end then follow the path around until you reach the entrance to the building Now turn left and follow the path straight down until you reach a tree (killing an enemy on the way round)

Still facing the tree, take five steps left, wetching out for the Beasts and follow the path down end around towards the for Pick up the gear from the stone table and go to the edge, picking up all the mena blossoms. Run back to the tree and send your characters to sleep for about two minutes (in real times. Bun back to the stone table agein and the plents should have grown back if they heven't, sleep egriin in a safe place. It's best to save every time you go

A Those are some secret mores werene to be discovered in this bleed thirsty head from Harway keems urbat May are and you will too acco you so read these airs back to the blossoms as you can get magic bolts and lightening hitting you By repeating this you can build up a healthy stash of mana blossoms which can be taken back to the food shop and sold for tons of gold. You need to watch your food and water levels when doing this, end keep stocking up at the shop of kill the beasts for the steaks you get (which can also be sold if you have any left over!) The easiest way to kill them is to run around them (they're very slow) and you'll also improve your exce-

rience this way Brilliant or whet! PREMIER MANAGER 3

Gremlin

Now I know we've hed tons of these phone numbers over the years, but I wasn't actually sure if I'd seen this one before, so here

it is for your pleasures enter '400040' into the telephone for a team full of Super-Pleyers, each with high fitness, morale and excellent skill on BOTH feet. YIKESI If you put one of these players on the market, everyone will want him, and even better you can use the number as many times es vou want. Nice

THAT'S THAT!

ed it is, but don't fret, Il be back next month th more game-spoi tipe codes and chents. Of out you, so get writing eed doe't forget to let me know what machies you ive 'cos there's a fras Hit quad gome for any tipsters who get their work printed



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ALL SOUND AND NEW ADDITION O THE

70

We've gone graphics crazy this month.

There's the wonderful Cybervision 3D and a round-up of shareware packages. Plus lots, lots more.



The latest graphics board from phase 5. It's cheep, it's well specified but is it all it's creeked up to be?

Graphics round-up

Special factural Wa bring you the best of the graphics packages you don't hear about. Freeware or shareware, it's all great software.

58 **SMD 100**

We test this SCSI CD-ROM add-on from HiSoft which promises to bring MPEG CD-Video to the masses.

Quickcam Interface

A clever adepter from Evetach allows cheap PC type Quickcame to be connected to an Amiga. Video conferencing takes a step closer.

Geek Gadgets

Everything you need to program your Amigs Including compilers for dozens of languages,

Trackball

Golden Image bring out a new trackball. It's great for playing Musile Command but can it replace a mouse?

64 PD Scene

Our regular round-up of the games and demos scena includes a multiplayer Colonization clone and some Aminet gems.

PD Utilities

Our reguler round-up of the useful and not so useful utilities that betted up this month. From first aid to Invoice printing, it's all here.

CD-ROM Scene

We take a closer look at two disks from the Aminet collection and mamina Almathera's DTV CD2.

Art Gallery

OK, so it isn't all that technical, but after all that serious technical stuff it's nice to look at some olorlous graphics.















NEW

Cybervision 3D

■ Price: £219 ■ Developer: Phase 5 Digita Products ■ Supplier: Gordon Harwoods © 01773 836781

Though AGA can still fight with the best of 'em a graphics cerd like this can do wonders.

f you've the money deskspaca and Inclinanon a bio-box Amiga is a wonderful thing Their Zorro slots anable the addition of third-party hardware that can't be added to the A1200 or at laast is very difficult. The prize example is the graphics board

For an ideal computer display. we want a high resolution coupled with a high raffresh rate so that the display is crisp and easy on tha eva with no visible flicker Then, of course, we want lots of colours so that the graphics look great and don't need to be dithered Lastly, this display should be fast so you're never left waiting around for things to draw While AGA can cope reasonably though not as wall with the former categories (with the rise of DBLPal or Multiscant in the speed stakes it's totally eclipsed by a Zorro graphics board such es tha Cybervision 64/3D.

Phasa 5's previous Zorro graphics board was the Cybarvision 64 It was the best graphics card for Zorro-equipped Arnigas Based on the S3 'Trio84' or the 'Steelth' chipset, esternally it's fully 64-bit for blinding parformance The

successor to the CV64 reviawed hera, is the CyberVision 64/3D This 'ViRGE' chip-set which integrates a 3D engina mto much the sama sort of design as the CV64 Unlika the Zorro III only CV64, the CV3D rs a dual Zorro II and III

card is basad on the S3 autosensing card



Improve on AGA How do these cards work? When the Zorro card is fitted to e bigbox Amiga, it normally prasents two video connectors to the rear panel One of which is connected with a supplied lead to the Amiga's netive video output The other is the video output of the card and is connected to a monitor The provided RTG software

will create brand naw screenmodes which appear in AmmaOS's display database. Than all screen mode requesters show the new modes

When an Amera screen mode is need, the card switches the native Amine video through When a new graphics board mode is used, the card's graphics



chip generates the video instead.

Here's where the CV3D differs from the rest. As standard it has no video pass through at all. It requires the eddition of a scandoubler modula which has the switcher and a video scan-doublar which means that nativa 15Khz screan modes will work on a SVGA monitor That way you gould afford a decent 17" display rather than a 14" multiscan montor which can handle 15KHz modes as well

The problem is the scan-doubler modula is axtra end it wasn't released at the time of review So every time the scene flicks to a nativa Amiga screen, there's no video output at ell. Since this means names, non OS-legal softwara, guru messages or a

messed-up RTG software installatron, this is not a good thing. I believe Phase 5 should have included the video switcher as standard with the scan-doubles itself being a plug-in module

Simple enough This shortcoming asida, installa

tion is fairly straightforward. The card tits well and the cut-ont section near the rear makes it even easer to plug in Installing the software required some manual nnpingging of the video lead to insert into the Amrga's vidao out since my startup-sequence was modified from the norm. For those who used the CyberGraphX RTG softwara the Installer does a great job of backing no the old files. This needs to be done

bacause the software supplied with the CV3D is the brend-new bete version 3 of CyberGraphX

With our Amige 'Microvitec' 1764, the standard 64KHz monitor provides a range of usaful screan modes Switching Workbanch to the 800 x 600 256 colour made produces impressive results. The speed is considerably greater than the old GVP Spectrum (also a Zorro III card but with a slower chip-sat) which I nse from day to day I was spoilt with the Spectrum before but this is a whole order of performance better. My outrageously textured MUI

GUIs appear faster than vanilla

How fast is fast?

IDEE	AGA PAL	AUA Frod	GVP Spectrum	Phase 5 CV64	Phase 5 CV3D				
Braw Linns	939 (1)	571 (9.8)	16297 (17.4)	58662 (54)	148584 (158)				
Dense Circles	1396 (t)	£36 (\$ 46)	42984 (30 8)	144558 (184)	#5400 (H1)				
Sarull X	21 (1)	14 (0.00)	484 (23)	2464 (117)	2420 (115)				
CON: Dirtput	240 (1)	168 (0.7)	450 (2)	1334 (5.6)	1588 (8.6) 48828 (518)				
Areafill	84 (1)	U2 (U.UI)	348 (3.6)	33884 (380)					
Swap Screams	501 (t)	574 (1.15)	24 (0.05)	83 (0.17)	67 (0.13)				
All speed tests from WiSpend by JAMI Suftware Ouredopment ronning so so A4000T with Cybersterm 80000 80Mbr.									

AGA PAL: In Bit Bus Interluped PAL 250 cefeors GVP Spectrum 640 x 512 255 celnurs

ASA Prod: in Productivity meda 258 colours Phoon 5 CV30: 648 a 512 258 colours

erro in brackets ses relative to AGA PAL performance. For example (2) means twice as fest no AGA PAL)



Gadtool variaties on AGA. What's the depth gadget to 24-bit. more, screen changes from one CV3D mode to enother were a lot faster without the annoying delay expensioned with the spectrum

Buggy software Unfortunately, there are some

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problems with the new veision of CGraphX Firstly, Final Writer bangs the machine when I try to ppen on a CV3D screen. Not good Despite numarous updates to the latest version before going to pless this is still the case. For one of the major applications on the Amiga, this is unacceptable

Firing up the Voyager Web browsor on a 16-bit scieen (65K odd colours good apmoromise between speed and colours) presents a blank display Demn Time to have a play in the CGXMode screen editor This program allows editing and creation of brand new screen modes of differing resolutions, scan rates and colourdepths. Unfortunately it's just as rubbish as the previous version of CGraphX A small confusing GUI which isn't a patch on even tho ancient EGS screen-mode editor and certainly not PicassoMode or Picasso96Mode

After a few hours playing in EGXMode, I realise that it isn't possible to open an 800 x 600 16 bit screen. This doesn't make sense since I could open a lower resolution 16-bit screen I could even make a 24-bit screen but no 16-bit. OK since the card is so fast, I'll deal with a 24-bit screen The default 24-bit 800 x 600 display has a silly 48Hz flickery display so I delated it and duplicated the 8-bit 70Hz mode and cycled

Press test and it works great Saving this out and rebooting there's no 800 x 600 24-bit screen moda Checking

CGXMode again, there it is but it's not appearing in the display detabase Phase 5 are unhelpful but I find out from another CV3D usm that I should delete some unused modes. Bang, the 800 x 600 24-bit screen appears Hallolujah, all is not lost. I would have preferred 16-bit but 24-bit is pretty fast on the CV3D anyway There's one basic 3D demonstration program that Phase 5 sent me but unfortunately it wants an 800 x 600 15-bit screen which I

The version of the software shipped with the card on floppy disk also exhibits graphical glitch es on MUI GUIs and even the CLI scipling The leter varsions of the software fixed much of this but to date there are still problems. Menus on screens of less than 256 colours are corrupt for example The RTG seems to mass up the display when revert ing to AGA with 32 colours or so

couldn't get to work. Dam.

Glitches in the CLI scrolling are still there. sometimes flicking screens needs two attempts and DOpus 4 fails to open a Workbench clone screen also, CGraphX representatives reminded me the software was beta I m afraid I don't soo that as an excuse when it's shipped with a commercial product.

There's very little provided in the way of software utilities on the floppy disk shipped with the CV3D Certainly nothing to do with 3D at

all. One nice utility though is the Osins MPEG player On my 68060 equipped machine It can play acceptable rate which is the first time I've seen this happen on the Amiga with a software decoder Unfortunately, though it claims to play Video-CDs the softwere

claims that all our Video-CDs are not 'XA mode CDs when I know full well that they are

Unsupported 3D

So what s the 3D about then? Basically CyberGraphX V3 has an implementation of the so-called 'OpenGL' 3D system which means that coftware supporting this should be shie to be ported to the Arniga or at least software coded from scratch to support it. The idea behind CyberGraphX support ing this is that such software should work on any 3D graphics card and not just the CV3D. This idea worked for 20 so it's naturally being applied to 3D though it's early days and there's no real software at all Don't expect someone to write a Doom clone for it

though, it's a gimmick feature which is currently unsupported Performance wise the CV3D is a nippy caid, comparable to the CV64 Fitted with 4Mb of DRAM as standard it's capable of 24-bit in 1024 x 768 and 16-bit above that The memory should allow it to do high modes in 24-bit but this limit tation is with the VIRGE chip-set Other than the Phase 5's momentary lack of reason in omitting the

A The orygin though workship Dyberlingshit screen mode editor Seen bore on the most pattern passers and it clauds out one acreen modes

monitor switcher, the negetive aspects are software related and so liable to improve with future releases just as CGjaphX 2 x did

To sum up the negative points a CV3D owner finds themself with buggy RTG software, no vidad pass-through and no 3D software to support the 3D features. Some 18 months after the CU Arriga 90% reted CV84. I would have expected a fastor card with better softwere for cheaper Sadly, this

The bright side The bright side is the card is com-

paratively cheap at £220. However since the monitor switcher is more or less essential at £85, the ectual total comes out at slightly more than £300. This is the same price as the CV64 was but you do get a scan doublor into the bargain (providing that works). Unlike the promised but have delivered MPEG decodes for the CV64, we have it on good authority that the CV3D MPEG decodes will appear, still a top-notch grephics card, well built and the software will no

of feith, the CV3D would serve you well for a long time Should you buy a CV3D? While it's a promising graphics cird it's not really anything new (apart from the unsupported 3D) or any bettar value for money It could be argued that it's a step backwards You may choose to wart until we review the Villagetronic Picasao IV end its new Picasso96 RTG soft-

doubt be fixed soon. Taking a leap

were in the next issup-Lappredate Phasa 5 have things on their mind but the CV3D package could have been more polished on release. We'll keep you informed of any updates and fixes Mat Bettinson

CYBERVISION 64/3D system requirements: for Amea with a seers Zero sie



Graphics



-the other packages

There are plenty of alternatives to the likes of ImageFX, Vista, Brilliance and Photogenics. And they're cheaper too.



ersonol Paint, Art
Effect, Photogenics,
XiPaint, X-Cad Pro
2000, Visite Pro, WCS
Cinema 40, ImagerX
LightWave, Clienses, ImagerX

the hist goes on. Under supported in many other, the field of graphics is still one In which the Arrige can hold its head up high These commercial peckages have shown their worth time and time again.

and them revowed three and the control to the contr

The greatest single resource for the Amigo these days is the PD/share-wore scone. Sure, sharewere isn't usually developed to the degree that a communicial release is, but there are

some real mesterpreces out there. What's mare, the need to produce something which is commercially viable just does not exist for a shareware/freeware writer, there are no advertising costs, no distribution fees, a on no peckeping costs. Which

little or no peckeging costs. Which meens that as well as pockages designed to compete with the ImageFks of this world, there are weird and wonderful peckeges that would just nover make as a commercial reliese.



GFXLab24 24-bit Imaga processor

24-bit Image processor
As the name suggests,
GFXLab24 is a powerful 24-bit image converter and
processor it can load files by

detatype and in formats such as Tergs and PNG, currently being touted as the successor to GIF GFXLab24's output options cover IFF and IFF24, JPEG, PNG and GIF, including transperent GIFs

With 125 functions to chose from and a real temp pressure window to see that the results of your medifications before they use soft in stone, 67KLa526 affairs real image manipuletion power. Image prosident production is a standard functions such as convert to gravacies, regative and colour filtering, but other than the simple routines you might suppect in e. piece of PD. these are often powerful processes that allow you to other the ed., green and blue chamists to other the ed., green cond blue chamists

GFXLab24 also has e renge of operacros for producing special effects, such as emboss, sketch, whin and quantize, and 'toolbox' functions such as ramoving isolated pixels, particularly useful for scenned images in which signal noise often appears, or pixel dispersal, which moves pixels around by a rendom amount to fuzz borders.

GFXLob24 doesn't have the power of image FX2 8, but it is a very good system, and is less system hungry then its commercial rival. Best of all, it is froeware.





AMountains

Fractal landscaps ganaretor Everyone should be familier with the concept of fractal landscape generators by now after all we gave an excellent on a sway on the Soptamber issue covol disk last year. Vista is a dream to use, with dozens of user variables and a friendly GUI front each.

AMountant takes a very different approach, effering rev power instead, it works in a fundamentally different very to Vista - variety visits tructs the inerdisage care. If the property of the control of the inerdisage care light poth animations and the Jake, AMountants is last to a proper position of the lendisages it generates. The downside is that visu out in move the cemere, the up add is that it is very fast. The minutes, where Yasis would state much much lenger to produce on image of this resolution.

AMountains is a port of the Unix Xmountains, and as is usually the case with Unix ports has been written by people who think GUIs are for wimps. Their





o alligner performant a realized saturates personnies. Show off a lot of options to play with, smootheq. contrast, vertical stretch, altitude, wa level, slope, contours, colour-bandeg. light angles, etc., but they are all set CLI parameters or by changing sootypes on the Workbench Icon It will sulput to any screenmode you choose -uding CyberGraphics There is no save, so output has to be taken with e

reen grabber AMountein's algorithm generates the landscape in vertical lines, scrolling the screen to make room for more once it is 340 By grabbing the screen regularly and carefully pesting the grabs together you could make hugely wide scrolling fractal beckdrops Imagine Defender looking

NavWiperPro 30 Video wiper

NavWiper is an impressive utility from Arnige VR meister Michiel E den Outer which performs three dimensional texture mapped screen wipes. Impressive video titling can be an expensive thing to produce but a very reasonable £20 registration fee will buy you a keyfile to run this powerful utility.

The idea bahind NavWiper Pio is that you define an animation length in secends, position e wireframe shape in several keyframes, define a texture bitmap and hit go. The program calculates the position of the shape in all the inbewireframe flip, rotate and move. The finel image is randered in realtime (or close) to en ANIM5 file applying the texture you have defined (the Image you want to wipe) to the wireframe shape using a chunky-to-planar routing not unlike the kind that can be found in games such as

This is not an all-round titling system, rather something with a very specific use, but one it performs very well. Sequences containing aprinting and zooming screens can look impressive indeed - imagine instead of swapping images by sliding the first image from atop the second you could have the first image plunge away from the screen as if it was felling into the second, spening and flipping as it gons NWiger Pro will do this for you very quickly and very easily

Xtrace

Bitmep to vector converter One of the areas in which the Amige has lagged behind other platforms is on vectoi graphics. Vector Images are mathematically encoded rather than stored as a bitmeps, which means that they can be interpreted at any size without the pixels becoming embauassingly large, Most users will have come across the differ ence between vectors and bitmaps in the use of fants. When printing graphics, similar problems may occur due to the differences in scienn resolution and bitmap (asolution

The idea is that you feed a standard bitmap image to Xtrace, and it breaks it down into a senes of shapes made up of straight lines. Because these shapes are made of lines it is possible to rescale the image to any fraction by simply drawing the all the lines that go to make up the image that much longer or shorter.

Xtrece has numerous feetures to make the output as good as possible. You can perform operations on the original bitmap such as strepping out unused colours, or clearing up isolated pixels, which will make little or no difference to the image

but significently reduce the complexity of the vector ver sion. The final result can then be output as DR2D or EPS (Encapsulated PostScopt) The abareware



AmiFig Structured drewing peckage Staying on the therne of vector graphics, Amifig produces structurad images. Another piece of saftwere based on an older Unix application, XFig. the workings of this progrem should be relatively familisi to regular renders, as a commercial structured diawino packege, Design Works, was given ewey last month. AmiFig does not have the user-friendliness of DesignWorks, but has more power functions, a characteristic of Unix conversions. AmiFig has a 30DM registration fee but the

unregistered version anly limits the size of files you can save, so you can try before you buy Visual 1.13



Imege Cateloguer Keeping track of large

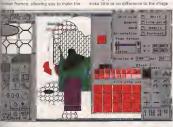
numbers of images can be a night maie. The standard solution is a database with small thumbriell copies of the images so they can be identified at a glence. Most software of this type will keep track of the file paths so that by clicking on one of the thumbneils, the full image can be viewed. The problem with this is that if you move a file, the progrem will lose track. Visual is a clever end original implementation to

get around this problem. Visual is in fact a visual directory browser, it represent the contents of each directory in icon formet on the screen, which is either represented by a plain default (con or e

small custom icon if one exists These custom icons are thumbnails, gen erated by ImageFX or ADPro via Visual's ARexx port. The advantage of this is that ell the igon can be moved with the original file and Visual will happily show the icon for the image in its new directory. The trade off is an extra set of

Icon files Andrew Kom Readers with our CD

issue wifl be gled to know that all this aoftware is on the CD is the Magazine directory

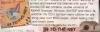




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elien is possibly the Artigs a largest setting acult lette. It features over 4,000 high quality 256 colour images of the "schill" nature. Image Hewers and povertr (CDO1) \$19.86 Adult Seneation 2 sat priy/aprilling 4,000 new octoor images but also includes toos of adult related samples.

Serry sensation, this CO contains around 2,000 executive

converted are induced for easy and guide across to any of the potunes on any Arage (OVER 18) duti Sensation 3D actionly consins over 2,000 that 5

ISTRICTLY OVER 18's ONLY) SCHOOL COLD dult MENsatire to a collection of usigue irreges of the rate body This CD-ROM has been compared to toriff the fundreds of requests for a CD dedicated to the ladjer

AMIGA 1.2GIG HARD DISK Conty ETT

Encyclopedia and changed, modified updated the whole product to the flow moludes over 20,000 audjects. The new 1697 version of the 1997 AGA version features inchi True 256 colour Multi-media interis units saything seen on the Artiga "Produced in the UK

'Around 15,000 subjects pay from Autoorg to Zygots "Hottlet editor

"Processation of processor Does 3,000 concurrence "Dozens of Nim-olips/land" Over 200 subject makes "New many film effice "full New Zoom option

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Arrittet set tero Arrived out three 34,86 Ammed 15 November 12,86 Aminet 16 12,60

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SMD-100

■ Price: £199 ■ Developer/Supplier: HiSoft © 01525 718181 http://www.hisoft.co.uk

Your favourite films on CD with top quality sound and music can be a reality, but don't throw away your video of Trainspotting just yet.

hen I was at University in a remote Australian town, video conferencing was seen as being a great money sayer for local busiuess Thanks to video compression, some bed quality video and audio could be squeezed into a 2 megabits per second stream. At that rate e CD would only hold 40 minutes of the temble quality video on offer. Just what does this have to do with HiSoft's SMD-100 AKA the Squirrel MPEG? Video compression is what it's about.

MPEG got better However, things here improved

since then and now a single chip can be used for pleyback at CD's standard single-speed rate of has the capability of being rather

Of course none of this is new Commodore threatened to make MPEG big in the Western World with the MPEG cartnige for the one-time successful CD32 Unfortunately, they chose this time to go bankjupt so we'll never know how things could have been This MPEG cart allowed the

compression also supplies near-

CD quality audio as well

which are assentially MPEG on a CD-ROM so that you get 74 minutes of movie ou a disk. Yes that means most Video CDs come ou two CDs with a change being needed somewhere in the middle.

Stand alone



A. The artifacts occurred as a side effect of the rains mothed are not tan promunest.

unique approach of creating a stand-alone MPEG dacader box The SMD-100 is a SCSI device and in fact it's a SCSI controller of a kind which orders a connected SCSI CD-ROM to play and send the MPEG stream to the SMD 100 for decoding. For this purpose the black-box SMD-100 has two full sized Centronics style SCSI connectors on the rear so it may be placed inside a SCSI 'chain' i e between your computer and CD-ROM or even at the end if a termi-

nator is exteched to one



A MPES gate away with its leasy compression with the forts of last frame rates.

convenient din-switches on the rear to configure the SCSI address and finally a 9-piu ganlack conuector and a SCART socket for video output So with an appropriate cable,

passed through the SMD-100 and the moustor attached to the Scart socket The video output will then appear in the colour-0 genlock space as with normal genlocks. You could have your Warkbench on top of Four Weddings and a Funeral, for example but more likely uses could be klosk and video titling presentatious

Most people will want the SMD-100 to play Video-CDs, a task which is does very well sonn depending on the encoding quelity. I took the SMD-100 home with a hand full of movies and Menge video-CDs and lacked it into my 29" Sony TV After connect-SMD-100 hung price or twice and needed to be powered down by removing the power lead This may have been a temporary SCSI 'heng' or the like The SMD-100 comes with a remote control which directs it to tell the CD-ROM to play, stop or eject etc.

Nasty artifacts Video output was superb on all titles though there were some pasty movement ertifacts on e

few badly encoded CDs MPEG finds it particularly hard to reproduce with the resolution





A. Ficture reality of diffice from the intersect is often asbetandard, don to seen printed recordings.

plummeting quickly on a "busy" scene. Otherwise, the quality was generally far batter than VHS video Stills were, of course, digitally parfect (just where was that Basic Instinct?) but the clincher for me was the sound. It's awesome better than even Hi Fi VHS with no diopouts just sheel CDfike audio. Having to change a CD in the middle was no major hassle and balances against the fact I often tapped pause and wander off for a coffee without fear of mangling the tape. Video CD is great, why oh why didn't it take off as a rantal format?

Where the SMD-100 lets the show down is in what it could have been Ballng a SCSI device it could be sent data from tha Amiga with ease. HiSoft planned a ROM upgrada for the SMD-100 and a softwara suite on the Amiga to do just this but sadly they claim thera is now not the demand for such an upgrade. This means you won't be able to obtain MPEG files and play tham with the Amigs (on the Amigs screen with the ganlock capabilityl You also won't be abla to create your own 24-bit animations, convert to MPEG end play back at full frame rata. No, the SMD-100 is nothing mora than a Hi-Fi Video-CD player which has to heack your Amige's SCSI CD-ROM in order to function

So much more You tell me if I'm being unreason-

abla in thinking this is a missiva potential undeveloped hare? When pressed. HiSoft mentioned the lack of demand and the difficulty of obtaining smooth footage by playing from hard drive. The letter just



A Commercial MPES Wilno-CDs are governily of superior quality too their VES refine equivalents.

doesn't seem to add up hare, I'm sura my hard drive can managa a bit better than the measly 150KB/s than the SMD-100 needs for full rata FMV Parhaps if you call HiSoft and tell them you'd like an SMD 100 if they finish the Amiga soft ware they might think differently Until then it looks like a great prod uct sadly not carned through Mat Bettinson



Soud to watch

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Quickcam Interface

■ Price: £39.95 ■ Beveloper/Supplier: Eyetech © 81642 713185

Roll up, roll up. They said it couldn't be done. The Mec has it, the PC hes it, now the Amige can heve it too: video conferencing.

harks to Eyenech the Quelctors Interolutions rain young to press the Amaga by Mac and PC users have been able to enry the adelights of viceloconferencing van chaise Quelctors for a while, and also not the Amaga will be in on the act. The problem has been one of ports, the Amaga postule put entry in the act. The problem has been one of ports, the Amaga postule put entry to be identificated to board harde demonstrating of an interface which connects the Cuckcom to your Amaga was the postule or the postule of postule or the postule of postule of the postule of postule of the postule of postule

Not quite yet

Before everyone rushes out to buy one expecting to be able to videa confer once with their friend in Craydon or colleague in

Tokyo, I ought to sey that it isn't there yet
For E40 you get it cable and some software
Eyelfech do not supply the Duckcom itself. This
is available from many PC dealers, such as
DABS Direct (tel 0800 55 88 68) for E85. The

Junes Direction and on the Control of Contro

A Art Ed Helen gases for the camera. Barcheau produces har events — in oned lighting conditions, least careful augment and gast-processing allow more creative images.

Cannacre R

them to include an audio digitizer through the same Quickosm hardware and produce a full CU Seeme port. The Portplus would also make the current elaborate confinctor unnecessary, offering an even cheaper Quickoum solution.

Contrasting appeal In its present incornation, it is only a tool for

urage reaking but as a sometimes protopuephise, the speeds for me vary much. The black end write installation may concern these only inter-sead in conference, but I've elivery preferred black and writte inrages and was feen to find out what it could be. Less quelly on the sort of compar is low, although modern feen coetings allow even chappel mess file this to produce starp enough images at these low resolutions. Beyond that the major interrupt feetor in

yound beta the higher which discussed as maning quelling focuse - the learns focus on video conferencing cameras is lixed at sound helf a mote, about the light distance for a camera mounted on top of your monitor and although the small eparture ellows a reasonable depth of field, beyond 2m things go very sold.

The contrast and exposure range fillowed imaging in a good mapped conditions, although extreme highest part of the settlement to the settlement of the settl

software is a useful but fairly basic image grabber. Setting up is a breeze, plug the camera in, switch on the computer click on the Quickeam program icon and you're off. From the software you can alter the contrast, exposure, zoom and size, watching your alterations taking effect as you do them The input resolution from the camera is 320 by 240 pixels, in 64 shades of grey but this can be scaled down to 80 by 60 pixals to get a greater updata speed. How fast the screen updates is partly dependent on the speed of your system, on a 68030 based systern I oot screen updates at about 1 frame per second on the largest screen, and not far off realtima rates on the smallest. The software can freeze images and seve them out as a grayscale (FF or can spool frames to disk for you to make into an Anim yourself, Eyetech told us that they hope to build in Anna support but a CLI utility such as Buildanim will turn the spooled frames Into an Anim in no tima

CUseeme Fwetsch will sell you a video confer-

enong solution with colour end solution, but it costs £280 end only works as en Amiga to Amiga system Havever, the Imment release of Hypercorn from WMC, which Eyetech are distributing in this country as Portiflus should offer a solution, Perupus is en A1200 plupin board which adds fast serial and pirallel ports — Eyetech believe the will ellow

DUICKCAM INTERFACE



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Geek Gadgets V1

■ Price: £19.95 ■ Developer: Fred Fish ■ Supplier: Weird Science © 0116 234 0682 g

Gedgets for geeks? Well, it's not really for geeks, it's for those of you who want to get into Unix.

the title of the CD puts you off then you off then you can probably stop can be considered to the construction of the construction of

To my ADE Geak Gedgets contains the Amige

Development Environment, a groect started out of the work done by Fred Fish on his Fresh Fish CDs. It is besically a collection of Amige parts of populier GNU software from the Unix world. Most notably this includes an excellent port of the multi-talanted GCC, which is a C/C++/Objective C



compiler with support for crosscompiletion (there's even PowerPC capabilities included!) Another femous GNU product

Another famous GNU product is Emacs. This is emocumental beast of a text ectors, which is airmost an operating system in itself. The secret to its versatility is the underlying tap programming language. This emakes you not guist early expenses the secret to its versatility is the underlying beautiful to the product of the secret to dispute the product of the produ

Next up on the top times and progrems is GhostScript This is a PostScript interpreter which can be used as a previewer or to print to non-PostScript printers it was a pleasant surprise to find that this worked pratry well. Not streight sweap, unfortu-

nately, but eventually the magic incantation was found that allowed my A1200 (with a mere 10Mb) to display the infamous tiger picture

X factor The main collection of programs on this CD comprises tried-and-

programs on this CD comprises tried-andtested and largely bug free versions. A set of

The odds are stacked against it. Now why are some of these bris ports a bit unreliable and crash-pone? Will, a major benefit of progressming under an operating system of the progressming under an operating system of the progressming under an operating system. The progressment can be a bit more lasty in their memory usege than they can under, say, AmigoSS, The shows (self particularly in many progress" uses of stack space, Under AmigoSS your stach airs is guite limited and more he fixed at a stack which will sell on your dynamically as aneaded, 50, the actually quite remarkable that this group of Amigo progressmene have managed to get any of these ports working acceptably.



District the second second

'elipha' releases, including a varsion of the X windowing system is elso included. The big problem when testing this was the absence of e "libX11 hitibrary" file. After many hours trying to work out what was wrong e program celled.

"abaditars" was found. In feet, "abbditars" is a shell soipt, which requires you to be running a subble, then keep to the counting as subble, then keep the problems just running ship and another set of problems just running ship geve moy yamen it was nother set of moy amen, another set of moy amen, another set of the set of the

Can I use it?

Since the majority of the software is covered by the GNU license, it must be accumpaned by full source code. Depending on your point of view, this can be a develope is determined by the source of the code is not the most readable or instructive in the world, but as large collections of source go this is probably one of the legacity.

So, what's the real point of this CD? Well, at the moment it's not likely to be useful for anyone else epart from those that went to be site to do cose-completion, those who went to make themselves a most Lothiskee envisionment on their Arruga, or those who went to high develop parts of the ADE. Find Fish each the who



Jason Hulancs

Golden Image Trackball

Price: £19.95 Supplier: Golden Image © 0181 900 9291



and ay to mouse replacement treckbell. On first implession, it feels rather shoddily made, its cheap plastic construction inspinno little confidence but a mouse I have from the same factory has lasted fauly well though, and the trackball does have a year's guarantee so I thought it worth a try out

In use the trackball manages rather well certainly in companson to the Alfa Data trackball we reviewed a while back. There is no way, however of removing the bell and cleaning it without teking the whole thing

for long life, but this is per for the course with trackballs. The design is ergonomicalarrangement well spaced

surprisingly easy aspecially when replecing a single button Mac mouse in ShepeShifter Drawing with the trackball did-

n't give quite the piecision of a mouse, although it produced better results then the older Alfa Data model A sketch done with the trackball had rougher lines. whilst the mouse allows more confidence in exect positioning of freedom with the trackball that encourages more lively sketching, but I pieferred the feel of the

mouse overall There is of course the ultimate test of all treckbells. Missile Commend, Compared to a mouse both trackballs won hands down Comparing the two, I found the Alfa Data to be as good, the only time I didn't Image model

Trackbells have never been hugaly popular with most Arniga owners, although I have met a few people who absolutely swear by them, if a trackball appeals to you, or if your desk is so small you keep running the mouse nght off the edge then you could do a lot worse then this



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J Scene



Commercial quality games and whatnots et silly prices. That's the beeuty of public domain. Andrew Korn surveys the scene.

Parasite game

type of game. H is a little bit like Corporation with just the smellest hist of



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1497 Multiplayer strategy

thought how much hetter Sid Meier's Colonization or Civilisation would be with a multi-singer putton. pinyer option. Dutch Colosia-atina fan Jan



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charoware pachage



Aminet path: ames/Zuloy 1497.iba (112k)

Aminet Gems Voxel engines



With so recey of our readers on-line these days, se lacressing number of people use these pages to decide what files to FTP rather

Gibs to ETP exhibition when disks to buy. So I will be going on the occasional travel of the Aradiast to look for smaller game for these of year. The month, I wan huming Vocal engines. Woods on, roughly spinking, 3D piece is not work of seal to global street, and the property of the pr

Aminet Pether VoxeIAGA: GFX/AGA/AgeVexet_fix.lhe V_Engine2: GFX/AGA/V_Engine2.lhe VoxeIEegine: GFX/AGA/VoxeIEegise25.lhe

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Footy manager game

Footy manager game
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Punter v3.2

Digital gee-gees

Digital gettergeter

Punter's outtor, Steve flye,
originally wrote this program
for the Spactrum years ago,
sad that breeding shows is
some of the crudest upalics I have seen in a long
time. Which lan't to say
that I don't like the garee.
There is a season full of
seens, with loads of hereas for you to bet on. Thme pun-

for you To bet on. Thire pure dist solvies you, each la their own style, from the boffin whe sealyees form mitionally to the TV puedit who confidestly informs, you the first three places and is always average. You can seve buy your own home. Up to four players can play seal it's disk type of thing that if always under enumement with a bonch of rowdy friends.

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portrait of cineste or curous scinner, bet the resjority consists of barborices, dragons end big-breasted mermaids. Meay of the ineages am direct copies from big name fantasy orbit euch as Boris Vellejo, bet them en some very good original pieces too. The only complaints I have is that there are so credits – I'm sure the ertists would have liked acknowledgement.

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Utilities ere those essential little gadgets that make life much easier, Seme goes for public domein. Here is a selection of some darned useful little items that once you try out you wonder how you ever got by without them. Well Andrew Korn thinks so anywey.

Onform2.0 **Business forms utility**

Whilst order forms and Invoicing can be seeily produced with more spaced purposes authors such as spreadsharts or word accessors, there's no doubt that a declinated utility can be a real before a well before order to be a convision with yell by a convenience with yell produced and the convenience with yell greater door a well bed out order form of invoices, handling financial

Section 2 and burdents. Outloom 14 is convisioned active of processing and the control of the co









batter and batter

hauds all sorts of powerful image processing functions but they aren't the best thing for your kids to hom on. Which by where Art Elfes comes in. There is as absolute how railbrium of source! Services—no extremends selection, even the pulstria is unestitable and bon's expect watersellow if sever modes. On the other hand, if you've a six year old the facility to stemp

down images of smilling suns and abouts is far more important three are excludily meny things wrose with this package — the eithrush effort was so feat it quickly filled its housedaries and produced patrily squares; the room fuestive is rether lasely implemented and so one but there are oles meny

Beety implammented seed are one, but there are size, merry these sight. The coolster is simple, inclusive and brightly solicured, amening assimplies play where you acknow lord, you collected, amening assimplies play where you designed to office seemals, and will make the whole though and exceeding the collected and t

AmigaDos Guide v2

Multimedia quide

During the fong and noble sistory of the Amiga it has seen sold with any number



thickey of this Armigla is Roomy and the Control of the Control of

Birthdate History v2.24

Birthday database



This is one of those utili-ties that have absolutely no practical value but can be of anomerous use when your slippy halfwit cousin comes to visit and demands to have a

Switze and special field Worms offering as open a distribute or and it will keep them amused for ages. But had been a simple but affective that the special field of the special

Multimedia guide

OPA, not perioraseer You serve it you might a specific methor 'Quolin' as I a 'Quolin' and you you want to the common of a common of application, and common of the common bullet wousds and all complete with true to form first ald book style cheesy illustrations, I can't honestly imagins that anyase with a compound fracture is going to limp over to their Amigs to find aut what to do sext but as an aducational tool,

Amigs to find all timits to do said to be an in desimentation. If it's every good.

There is ever a bonue disk with a nice peint and click hyper-book presentation of one of those "Choose Your Ows Path" books that were so popular before the Japans as lavented Segs and Nintanick, Wa day, and informative too.



4 4

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CD-ROM Scene



Andrew Korn has all the latest CDs. Nobody but nobody gets to see them before him.

Aminet 15 and 16



Typical isn't rt. Nothing for a month, then two come at once. In true Aminat tradition, Aminat 15 presents 500Mb or so of date that has arrived since Aminet 14. reviewed in our Jenuery issue Aminet 16 has about another 600Mh of new matanal since then. In case you are new to the Aminet, it is grouped by subject for easy access, the subjects covening things like biz/petch which is filled with upgrade patches for commercial and shareware software, or GFX/3Dobj, where objects for Imagine, and

LightWave can be found The bonus on Aminet15 is a collection of MPeg files MPeg compression is a video compressign system used on video CDs, a hard process to make look good. reguring continuel adjustment to get decent results. The unfortunate consequence is that the Image quelity in these MPags is very low, and what with Amiga MPeg pleyers all working through software, you'd be lucky to get anything close to smooth playback on an '060 Cn my '030 50MHz they run at about four frames par second. On the plus

front Ammet 15 has a good games section, with two notables being Wheels, a very fast 3D Voxelspace racing game and Genetic Species, a brilliant Doom clone which runs on that '030/50 at ebout as well as Doom on a 486 There is also Nenodum, a 256 colour fast Doom engine (no game) which takes up only 4k totally useless, but farily emusing

On the utilities front, Aminet 15 is well served, notable inclusions being WhirlGif 2.0, the GIF animation maker, MUI 3 6, and the excellent XTRACE which converts bitmeps to vectors. Less obviously useful entries include the Orici Atmos emuletor and the Water cooled Amigs DIY project HighGFX is a new monitor driver, which unlike the standard MonEd hecks is a new screenmode claiming SVGA like resolutions of 1024 by 768, but it didn't work on a 1438 monitor

Aminet 16 seems to have dona well in the graphics department, with a collection of Escheresque drawings from Unreal, e Croatien computer surrealist, and some very strange enimations from Pole Mediei Wojdiechowski and



Halloween pic of his latest furry female creation, a skunk called Sebone and directory of (vile) tricable textures

The utilities directory contains a collection of tools and utilities for the Zip drive Although Zip drives will 'plug and play' on an Amiga...lomege haven't bothered producing Amige versions of the various utilities they supply with the drives. This smell collection gives you write protection, low level formatting Applican disk election, etc. Thata ele elso Mac. and PC format mountlists to allow cross platform reading of Zips vio CrossMec and CrossDos Inclusion of the month award goes to Amegaloed, a superb hardplays your computer's CPU load on a moving coil (needle) meter

plugged into your joystick port.

has some interesting demos

On the Games front, Aminet 18

X-Philes will be kept occupied by two issues of Dreamland, a disk mecezina - the truth is m there somewhere Avelleble from: Weird

with glonous graphics. Particular

note has to go to Evi's Doom, no

yet enother Doom clone but an

AGA-only RPG which looks stun-

ning, and has some great cheesy

fantasy gibberish such as " when

seas were of blood and books

were made with human skin.

Science, 1 Rowlendson Close, Leicester, Leicestershirs LE4 2SE Tel: 0116 234 0682 Price: £14.99 such plus £1 P+P for 1, £1.50 for two.

Amiga Desktop Video CD2



Scale 1.13, an old the package.

ts

although it is still a perfectly use able titler, most users will want to use the resources supplied on this disc with their own more up-

to-date authoring packages What really makes up the meat of the drsc is the fonts. graphics end backdrops. Discs full of these thmas are ten a penny, end to stand out in the marketplace, eny new disc really has to have an edge, something its rivals don't have in the case

of Amigs DTV CD2, this edge is approprieteness, Scanning through the 200 colourfonts. 150+ edobe type 1 fonts and 200 odd beckdrops, I got a real sense that they had been selectad, where so often things ere just shovelled. The fonts ell look like they might be of use, and specifically of use in a DTV context. The textures are all similarly useful looking, some simple and effective, some over the top end

insane, but no random you'll-be-lucky ifvou ever-find-a use-for-them meges of the sort that are so common m this sort of disc. What's more, you'll find a lot of textures here that eren't on every other CD-ROM in your collection There is a small selection of ehort animetions, mostly things like rotating pens end coins which

again seem eppropriate to the purpose Several of these animetions ere also supplied in IFF fremes, which make them fer more useable for purpose they are intended, especially in then

instance of the VTR clock The presentation of the drsc ra very streightforward. There are no fleshy front ends or elaborate search routines, instead the compilers rely on that old forth ful, Warkbench, with e few little utilities scattered around to make life easier. If, for instance, the

default textilie reader doesn't surt you, no problem, Toolelias is there, a commodity which miercepts default tool calls to tools you don't like and translatos them into tools you do. Tho toxtures are alt mdexed, and can be viewed from Warkberich with either of the two viewers supplied as can the sample mages

supplied with each colourfont, You get the feeling that the compilers of this CD cared about what they wore doing and really put some thought into what people would find useful. It shows in the way they have nemed the textures, people just don't invest that much time coming up with comedy titles in shovelware

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Meeting Pearls 4

The Moeting Pearls collections are kind of like an Aminet geek special Thousands of software trilles, sorted into Ammet-like directories of subject metter, with an Aminat like front end. This CD is almed at the more technical user though, and this is reflected in the wider range of aptions presented to you when you click on a file from the front end, allowing you to view does, run software. copy the drawers, open a file handler utility or edd to e hotlist Altomatively there is a MUI-based search engine and directory tree utility If the Meeting Peerls front end scores highly over Ammet's in the power and usefulness stakes the CD compilers seem to have got far less to start up from the front and then is typical

The techni neture of the disc Is apparent in the software selection too, with a large selection of the Amige E programming lenguage a version of Lisp and a collection of source code for chunky to planar routmes

for an Amrnet collection



A strong selection of utilities. includes some interesting and obscure pieces of software, such as a spectrogram analyser which takes sample data and converts it rnto a voicoprint' which is at least in theory, as foolproof an rdentification system as a fingoprint. Comms users are wall cetered for, with a version of pretty much every significant



comms software release for the Amiga of the lest few years contain a few intriquind items such as an editor for Yamehe DX7 vpices.

and the disk utilities directory contains a bunch of AFS tools. including an AFS volume defrag mentation utility. For the REAL techies, there is some HAM redio. software - ever wanted to send your E-mail at really slow speeds via the airwaves?

Getting a little less tochie, the grephros directories ere e real

bonus GFXLeb24 is a vary powarful image and AmiFig is a port of the powerful Unix structured drawing peckago XFig The games directory contems ell the usual suspects, nothing much new, but some old favourros such as

Shophord, Space Taxi and Zerberk, After ell. techies need to have fun too There isn't the breedth and depth of an Aminet collection, but there really are some pearls.

Aveilable from: Weird Science, 1 Rowleadson Close, Leicester, Leicesterabire LE4 2SE. Tel: 0116 234 0862 Price: £8.95 each plus £1 P+P

Art Gallery

Feverad twists of the imagination are translated into art on millions of Amigas out there and sent in for tha world to see. Here's the pick of the bunch.



Artist: Patrice Mille, Belgium Amige: A1200 SW: Imagine, Photogenica



Artist: Jaff McDarmot, Stockton on Tass Softwara: Imagins 3

Amige: A1200



Artist: The mysterious IJL from Chester sent in this picture. That's sil we know about it but it looks good



Artist: Jonathan Scott, Norwich Software: Cinama 4D, DPaint IV

Amigs, A1200





Artist: Devid Jorge, Portugel Amige: A1200 Softwara: LightWava



Above end top left) Artlet: Angue Lee, Inverness Softwara: Imagine 3, DPaint IV, ImagaFX 1.5

Amige: A1299, 1260 Blizzerd



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The LATEST EBE reported including detailed SETI information. Also, the way feeting tools on the amining news of locational Life styre found on a measuring feet with the by ASCA Science-Fischion Arc. On this C.O., there are details about the World's presence Seinner Riccord arisess For example, we have created a special exclusive H.H. Giger (well know for his work on ARC) gallery!

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Thosa of you on e quest for knowledge should go no further. Welcome to the section of tha magazine that does its best to verse you in all things Amiga.

76 Imagine 4.0

It's the Forms editor under the spotlight this month, a valuable tool for modellers. Plus on page 79 there's a chance to get the menual.

OctaMED Soundstudio

More musical musings and tricks of the trade are at your disposal

with our guide to this wonderful music package. Wired World

Sassah, you never know who may be listening or reading your Emella for that metter. You want privacy? Here's how to get it.

86 **Net God**

Never one to sit on the fence, NetGod sheres his views and lets us know whet's going on in the Internet.

Surf of the Month

Once egain, we send someone off on a surfing holidey around the net and then weit to ese what they come back with.

Masterclass

Yes it's time to breek into the Amige's shell end find out what inside. is it a softy centre or hard boiled?

FAQ

What's the point of it eli? Should I throw my Amige onto the scraphsep with the rest? These questions and others enswered.

A_BO 98

Our resident Amige experts are here to help you with any Amigerelated problem that you may have.

Backchat 102

Points of View









imagine



We're staying on form with a little help from Imagine 4.

me objects are easier to make in the Forms Editor as it is designed to create objects from cross-sections. There is total control over symmetry, so objects as diverse as wine glasses, boat hulls, human bodies and stone pillars are easier to create than in the Detail Editor.

The Forms Editor, however, is not designed to be used instead of the Detail Editor, but along side it. The Forms Editor doesn't provide the same degree of control over the appeararica of objects (colour, textures and so on) concentrating purely on creating them. It's therefore common practice to create an object in the Forms Editor, and then import it into the Detail Editor for finishing off However, although it's possible to import an object created in the Forms Editor into the Detail Editor, the reverse is not possible. So keep a separate copy of any objects created in the Forms Editor, even calling them a different name to disassociata thom. The Forms Editor can appear rather comple

cated, mostly because there are three ways of using it: these are determined by the use of either 'Formers' or 'Spaces' I can quarentee you though that if you work your way through this tutonal you'll soon be totally at home









Spacer objects

We'll start by creating some objects which do not vary along ther length, Imagine you have cut a particularly shaped hole in a piece of plastic and then squeezed some modelling clay through it. You'll and up with a tube of clay which has your shape all long its length. As an example, here's how to make a stone pillar We'll define the object in the Forms Editor, and then load it into the Detail Editor, apply a texture and render it.

1. Go to the Forms Editor, and select 'New' from the Object. menu. You'll see this requester appear. Copy the settings from this one into your own requester. It will create a long cylinder, closed at both ends and use symmetry options to make editing easier 2. When you click on OK, you'll see an image like this. It looks like a tube with two pointy ends. It's the points in the top left window which we are interested in now though.

3. Click and drag the points shown in the top left window You won't need to select move or anything: unlike the Detail Editor the default action is to it move the points. You won't need to move them all as the symmetry orton will make it easy.

4. To remove the points, click and move the two points at the end of the line in the bottom left window, and drag them to the same level as their neighbours. You won't be able to move them left or right, only up and down.

5. Now save the object, and load it into the Detail Editor There you can



the Detail Editor under a different neme, as only objects saved from the Forms Editor can be loaded back into the Forms Editor.

8. A stone pillar, created in the Forms Editor. twenked in the detail editor and randered in the project editor.



One former objects

One former objects are those which have a shape which you could make on a latthe, late a chair lag or a Parin chiese piece. The big difference to the first object we defined is that there is more than one cross-section used to define the outline. However, the cross-sections are symmetrical in all directions. Lat'a use the technique to create a wine glass.

use this technique to create a wine glass.

1. Go to the Forms Editor, and create a New object like before. This time select the following settings. We'll start by creating a wine glass object, which is sealed at one end only for else you couldn't fill at).

2. This new object looks like a sphere. However, think of the bottom left display points us describing the size of the cross-sections. The share of all the cross-sections is defined by the points in the top left display.

3. New drag the points in the bottom left display to form the outline of a wine glass. Keep the top left points the way they are to keep the glass circular, at least for the time being. You can drag the points up and down to make your glass taller or shorter, but move them in pairs.

4. Load the object into the Detail Edfor, and usa the Attributes setting to make it transparent. You can also set the specularity and hardness along with the

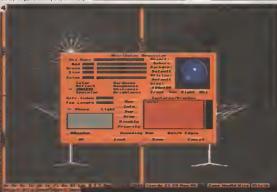
2 the

refrective index to make a rice glass effect.

5. Finally, we have a wine glass, created in the Forms Editor.













Two former objects This last cless of object is the most tricky to

work with because it allows a great deal more freedom. Rather than having only one profile (normally shown in the bottom left window) there are two profiles. This makes it easy to not totally confused it does cllow you to created much more complicated models though, es we'll see For example, we'll make an object which could become the body of an aeroplane, with a little more work. Notice how this time the object is



option This changes some symmetry settings, but we'll turn them off to etert with. 2. Agein, the starting point is a sphere. Note however that oil four views are active. and that the shape of the closs sections is define not in the top window, but in the bottom right

1. Go to the Forms Editor, and create a new

3. The first thing to do is to fletten the crosssectional shapes. This will give our 'plane a flet bese, and it will also help you to see what exactly is going on with the object Alter the points in both the left and right bottom views, like this.

4. Now you can define the length of the object in the upper view Dreg out the points to form the points at which the cross sections are define along the length of the 'plane body. Do this in the top left and bottom left windows.

5. The final fuselage is a little odd looking (well, mine isi) but with the addition of some wings (added in the Detail Editor) it doesn't

Perfect symmetry

Whether you use Former or Spacer objects, symmetry options, as shown here, highlight-

B of Poloto B of Blicos		" The Ferner See Ferner See Seacor	oten oten
W Y-E Cross		Real Pight	
		Summaton (Fixed) 7 No. 0 Bash	-
_	10	CARLET	

To see what difference the settings make, diag the points which make up a



Note that the 'Y' in the above examples will

only be an 'X if the 'XY Cross Section' Is selected This is the default, and is designed for vertical objects like bottles and pillers. If the "Y-Z Cross Section" Is selected,

the 'X' will change to a "Z" This mode is mostly used for horizontal objects such as

look too bad. Using the Forms Editor has produced a very smooth object, which would have taken a great deal longer if constructed solely in the Detail Editor. 6. This rather frightening jet plane prototype

was built in the Forms Editor





Imagine 4.0 Manual Offer

Awesome randers and enimetions era easy to knock up with Imagine 4.0 when you know how. Get the best from this emezingly powerful peckaga by ordering the official menuel from its creators impulse. No more fishing around one menu after another in search of that alusive feature end goodbye to scratching your head as you try to figure out whet 'that' button does ...



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pple?



One day we may see the rebuth of the Amiga with a PowerPC processor and other new features to enable at to compete again. with today's systems. Sadly though, more than two years since Commodore's demise, very little of substance has happened. We've seen prototypes and promises, but that's about #.

Perhans some can wait for the final outcome, but if you need more performance, without paying the earth - and you need it today - there's one real alternative to consider now

Only Apple can offer you both design and portable computers that truly match the ease of use the Amiga brought to your desktop Affordable Apple Macantosh systems have PowerPC RISC processors with thousands of off-the-shelf programs available in areas where the Amiga was previously so strong

And, if you need to have the most compatible of all computers, Macmiosh is currently the only system that can run MacOS, DOS and Windows applications via optional DOS Cards or SoftWindows

· Why Macintosh?

are FowerPC based (except PowerBook

190at Even entry level system run at 10060/z or 120MHz, with 200MHz powerhouses and 100 MI make-procornor systems at the trap of the range. Apple is the only manufream excupites compa

who has been able to make the massion from the older CISC (econoley massesson are computing) processors to the newer and leave BISC (reduced instruction set computing) processor technology - whilst still retaining full buckward computablely with previous softwo



specially for PowerPC Macc) have been bapped since Power Macintonius were launched in 1994 - plus there are thousands of examing programs which can also be said. treketey standard programs such as Word, Pagestresse, Word Perfect, Page FileMaker Pan, Excel, Quack Xpress, Photoshop and many others have all heve developed for the Mac

Marystosh still dominates the creative would with an 87% market share in coicar exhibitate.



* Most assignaines (probably the one you're reading right sow) are created on Microtonia.

a 28,900hps modess with full send/receive for and answerphone recongruent facilities

· Industry standard web browsers, Netscape Nevigace and Microsoft Internet Explor

were developed for the Mac Both give full access to all Web sites with new Internet some layout features like auto-tables and on-screen movies. . The Internet's standard format for video files, called QuickTime (or QuickTime for Windows) was an Apple development. Of course it comes as standard with every Moc.

- · All Macetoshes have networking built in as mandard an romercana systems together and adding shared printers etc. couldn't be easer.
- · All Macontonius have an external SCS2 connector as standard (except Donal - adding external drives. cartridge drives, scarners etc. really in Plag-and-Pla-
- · Low-cost digital carnetas can be plugged just the Mac for unstant real image input. · locurcore industry maded PG cards can be used as all May systems from the 5400 appeards

Murry carality. Macontain tales, are wadely available

Dedug Kinderley offer asperb titles like The Ultimate Human Body and Hatory of the World while Macrasoli publish Encarta, Greenway and December Because Macastosh is the preferred system watus, away educational establishments high quality nolivene is neared.

Apple n the World's No. 1 Meltimedia

the licitiv with core

- PC vendor All dealerop Macs have a face CD-80M slave as standard (nontables art asternal CD score tool)
- . In 1995, 42 of the top 50 selling CD-BOM sales worldwide were developed on the Mannania.
- · Many Macintonies have built-us TV with adetest so TV clips can be recorded directly to disl
- QuickTime moves . Many Macantolies have built-in valen
- as and out, for direct recording to VCRs · Some Macintoshes have asternal digeta video edinog inclines as standard, refers can be upgraded to stickel



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· Connecting and using colour protein (from

easy and the renalts are truly outstanding. · Many software packages are available offering stage pumpulation and





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· Why Harwoods?

led as a speculat Commodore dealer in 1982 and we're still supporting Arraga uses today. We began supplying Macintosh systems in 1991 when it became clear that Commodore was falling to capitalise on the technological advantage it had. We needed to have products available that fulfilled the needs of our customers who were demanding

- · Systems with a funce
- Systems with community performance

. Systems with unsurpassed pair of sac · Systems without the problems and disadvantages associated with DOS/Windows, which still negat and trouble users even now Today we have grown to become one of the largest Apple Authorised Besellers to Europe. Our extensive product losowledge and solid autopost facilities employs

our status we one of a select group of Apple Authorsesi Service Centres and accreciated Apple Higher and Purther Education Aliance Resellers. → Plane send the coupon or phone us - see Il rush you your FREE. Why Macantosh broch



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OctaMED SoundStudio



Hello and welcome to the first in the series on this month's wonderful SoundStudio covar disk, the ultimate Amiga music peckage.

Project menu

This is mostly concerned with input and output Now, clear the current song Open load a new song Pley after loading option to eutomaticelly pley a song in loading Sove save the song to disk. Save timer set the delay of the automatic save timer belief files, remove files from e duck Pnit print out the song data (or send to e text file). Commend Shelf-open SoundStudio a ARex command interfece.

Project	Oisplay	Song
меш		ZA N
open		A 0
Play A	fter Loadir	g
Saue		A S

Save... Save Timer...

Delete Files... 20

Command Shell... AREXX Script... Amigaoos Shell...

Last Message Online Help... Help About... 42?

Audio Channels
Oult OctaMEO...

Display menu

All the selections from this menu call up specific control penels if you accidentally close or lose any of the men control penels you can always open them again from this menu. The menu speaks for riself really each selection opening the corresponding additor

Song menu Select select which song you are currently

working not BoundStatio can have more than one song resident in mornoy at a time! Add have: add a new song to those currently a fixed and have add a new song to those currently a fixed to the song the song to the song the to the song the to the stopped to the song he to the stopped to the song he to the song he

Tracker Editor...

Main Control... Information Window... Tempo Window...

Synth Editor...
Sample Editor...
Sample List Editor...
MIDI MESSage Editor...
Input Map Editor...
ARBENX Trigger Setub...

ack	Instr	Edit	MIDI	Setting
Inst	rument l	ist		

Type...
Set Properties...
Load Instrumentisl...
Load from List...
Save instrument

Flush Current Flush All Unused Automatio Flush

Add Path Remove Path Haive Loaded Samples

✓ Load Samples to Fast Mem Hove Samples to Fast Mem Hove Samples to Chip Mem

Block menu

These options deal with processes that affect the whole of the current block. New creete a now black. Delete: delete the current or lest block Set Properties, set the number of tracks in the current block along with other attributes: Block List: display a list of ell blocks, useful for finding specific blocks. Highlight, elternating lines of the block can be highlighted to make editing easier and the gaps between the highlights can be set to any number Cut, Copy. Paste cut copy or paste the current block Swap w/buffer: switch current block with the one in the buffer All Crnd Pages work on all command pages (see the docs for details of commend pages a great feature we'll cover in a (ater issue). Insert Line: add a line to the block from the current cursor position. Delete Line delete the line et the cursoi position. Expand/Shrink expand or shrink the block by two or a specified emount. Split et Curson. split the block into two Jain With Next tack the black onto the front of the next one

Track menu

Tra

This is a quick and simple little menu that holds the cut, copy, paste and delete controls that affect the track occupied by the cursor.

Instrument menu

From here you are access all the controls that could be returned to the control that could be returned to the country to the c

an instrument to disk. Flush Current remove instrument from the song and mamory Flush all unusad: remove all instruments from memory that are not used in the song. Automatic flush determines whether you're asked before unused instruments are flushed when New is selected Add Path Includes the path of loaded instruments in their name. Remove Path, removes paths from instrument names Halve Londed Samples: option to reduce semples to half volume automatically on loading. useful for the old style 8-channel mode, not much use otherwise though. Move Samples to Fast/Chip Mem samples can be switched to Fast RAM when in Mixing mode allowing for much larger samples. Samples for a song cannot be shared between Chip and Fast mamory, hence the option to move them all

Edit menu

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Most of the aditing functions not contained in the Block or Track manus can be found here Cut/Copy/Pasto Range: performs these functions on a selected area (range) of the current block (drag out an area with the left mouse button to define a range). Paste to Selected Tracks pastes the range copy buffer onto that selected tracks (jumping any unsalected tracks use the number buttons above tracks to turn them on or off). Erase Range clear the selected range. All Cmd Pages apply changes to all command pages, or not if it's turned off. Discard Copy Buffers: flush the copy buffers Transposa, calls up a comprehensive transposa control panel for shifting blocks of notes up or down in pitch Replace Notes: a kind of search and replace function, Range Current Tieck set the range to the current track. Range Current Block set the range to the whole block Re-mark Range; moves the cursor to the start of the range. Spread Notes appends the notes in the range across consecutive tracks to the right of the range. Pitch Slide creates a pitch slida between the currant note and the next in the track. Volume Slide inserts volume changes to ramp from the current instrument's volume to that of the next. Generic Silde generates a transition between any two command values in the track Note Echo tum this on to generate epho effects automatically with repeated

MIDI menu

Of course this is where most of the MIDI set tings are made, except for individual MIDI channel and preset settings for each instrument (which are set from the instrument Properties section). MIDI instruments can be mixed in the same songs with samples. MIDI Active turns on MIDI mode Input Active turns on the MIDI input. Slave Mode Active turns on a new mode in which one Amiga running SoundStudio is controlled like a MIDI modula from another MIDI instrument (which could be another Arriga running SoundStudio or enviother software! Input Channel Felects the channel on which MIDI input will be read (not for MIDI Slava mode). Ext Sync turns on an sitametiva remote control mode in which another Amege running SoundStudio or OctaMFD can start and stop the song on this Arriga Send Sync acts up this Amiga to act

notes inserted at lower volumes in the track.

as the master in such a situation. Send Active Sansing: sands out penodical massages saying "I'm here and listening" to any connected MIDI devices Read Key Ups. a 'note off' command will be inserted when you release a key on a MIDI instrument dunne recording talso works with the Arriga kayboard). Read Volume reads and records initial velocity data as volume data from touch-sensitive keyboards Immediata Preset Change sends a preset change MIDI message immadiately if a MIDI preset is changed in the Instrument Properties section, otherwise a preset change message is sent when that instrument is next played, Raset Pitch/Presets sends out resat messages for all pitch bender, modulation wheel end preset values. Send MIDI Reset: sands out a MIDI reset massage. Sand Local Control: sands out a Local Control On/Off massaga Nota Killing selects one of two kinds of mathods for turning notes off SMF Load Options calls up the window dealing with loading Standard MIDI Files, Controller Commands set options for MIDI controllers.

Settings menu

Various praferences and settings are accessed hera. Mouse Options allows you to change the functions of the mouse buttons. Keyboard Options: various keyboard configuration options Programmable Keys sat up functions for the programmable keys Kayboard Shortcuts these can be re-defined and added to Mixing Settings, calls up the all-Important mixing settings for your chosen output device Aura Sampler specific options for use with Aura Equalisars choose from a couple of 'equalisar' typa displays Miscallaneous a bundle of settings that don't fit anywhere elsa Screen: change to any evallable screenmode

Instr	Edit _	MIDI	Settin
Mouse Op	tions.	***	4
Keyboard			A K
Programn	nable	Keys	ALL Y
Keyboard	Shor	touts	

Mixing Settings... FastMemPlay... Aura Sampler... Equalizers Miscellaneous...

Screen **Auto-Freeze Screen** palette...

Font... Windows

Load Settings... Save Settings Save Settings As...

of your choice. Auto-Freeza Screen, switches on automatic screen fissions. Palatter oustomise the scieen palatta to your taste. Font salact new fonts, useful if you've changed screen modes. Windows snapshot tools for the windows. Load/Seve settings: store or recell all the settings via the default settings file or create any number or alternative settings files . Tony Horges

The tracker

Uses up Traiter or most applie and sales to see may you think it took like a british of aplications proteins but when you have Model. These blocks are not into order with the Playing Sequence section and case in it as my order you like the same blocks reported as the Playing Sequence section and case in it as my order you like the same blocks reported as the sales of the sale when or examine appropriate Blocks are made up of applies primed in the discrete and some block reported as the sales of cate the type of effect comment (eg how much of the effect is used on the instrument). When you play a blook or

A handy shortcut for moving from one block to the next is use the Shift key with the Up and Down curser keys.

If you need to know toors

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Vired

Worried that the government or anyone for that matter is spying on your Emails? Don't fret here's a way to keep your mail safa from prying eyes and keep your privecy in tact.



lact which may not be commonly known, is that Email is sent as raw uncompressed text around the world. And any service provider from your own to eny other system between yourself and the destination can reed that Email Whether this bothers you or the chances of this being likely could be the topic of a separate feature but right now we'll concern ourselves with a way around it. PGP (Pretty Good Privacy), a universal cross-platform 'public key' encryption system, is one solution. What does this all meen? Well it's time to find out.

All isumbled up

The most basic form of cryptography is to take some data and scramble at an a particular way so that it is essentially meaningless. If the exact operation is known, the scrambled data can be unscrambled and the original material regerned. This isn't much good. unless the only people who have the encryptor are the people exchanging data. Public Key systems are much more complex beasts where the theory is that you must have a 'key' from one party to encode data for then The key itself asn't important and can be sent out via unsecure meens.

To decade a PGPed message, you will need two keys the public key for which the data was encrypted and the secret key which belongs to the public key The secret key is never sent anywhere, residing on the hard drive only. And for the last level of protection In case the local computer is compromised a pass-phrase must be used as well. It may sound complex but when it's working all you need is to exchange Emails with tray uuencode-lika public keys so mail can be sent encrypted

Complex commands PGP is a CLI executable with some rather complex commands to perform vanous. functions. The first step of installation is to extract the PGP archive to somewhere onto your hard drive. We are working with the AmigaPGP 2 6.3i distribution which can be found on Demon's FTP site at

ftp.demon co uk/ d3/amiga/util/crypt/ PGPAmiga 2 6.3is that If you have the CD issue, you can find a drawer called PGP in the Fretty Bond Privacy 2.6mi - Public-Ney encrystom for the masses. 6c) 1578-1973 Philip Zumermann, Phil's Fretty Good Software. 25 Oct 94 Nrisa ADZO Version by Peter Simons ScinomsSpett. ADR. de) Note: 1977/ADJ 2125 GFR

Fick your ISA bey size: "int your non my sizes". Casual grade, fast but less secure
1) 304 bits: Casual grade, nedius speed, good security
13 31 Bits: Commercial grade, nedius speed, good security
13 Bits bits: All lary seade, very slow, hybest security
15 both All IF PGP 2.6.1 only handles keys of 304 bits or larger.
16 house 1, 2, or 3, or enter desired matter of bits: 2

Benerating an MSA bey with a SIZ-hit modelus...

Now need a user DD for your public Mey. The desired forw for this
user DD is your mape, fell loued by your F-nail address enclosed in
Gangle brackets), if you have an i-mail address.

Gangle brackets), if you have an i-mail address.

The example: John Q, Saith (1228%, 679%compuseres.com)

Enter a user ID for your public Bey:

After our our parametry a public and present pair of large made up of \$12 bits with our name and fought address. It's heat to som either 200 as \$0, on your BEA has some, 1828 in purply and up a lift on the other with.

Wired World dir in the magazine section. After deciding where you want to install PGP, create a directory called PGP in that drawer and copy the contents of the 'bin' directory from the archive into it. Next you will need to set on ENV vanable for the path where PGP is installed. For this type the following in the shell;

SETHIN POPPATH Workbunch: PGP CODY MAY: POPPATH MEVANC:

Make sure Workbench PGP is changed to the path where PGP has been installed. Now in our PGP directory we have 'PGP263-000' and 'PGP263i-020' for the 68000 and 68020 CPUs, You should nick the version relevant to your CPU, rename it to just plain "PGP" and copy somewhere in your AmiguDOS path: A safe bet would be the C: assign. For example:

CD workbench: PQP rename pup2631-020 PGP CODY PGP C:

Now you should be able to simply type PGP in the shell and have it import back the correct. version. We're now ready to get started so we have to generate a secret and public key. Enter PGP -kg in the shell. PGP will ask you what sun key you would like to use. Only chapse. 384 or 512 bits as 1024 is too slow. Next it will want a user ID. The format for this generally matches something like, 'Joe Bloggs oe@bloggs.com>'. Instert your ID in this for-

mat with your own Email address etc and fet

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to med a rear advance to extend your PMS moved literature your atoms from phrone or good. Just a security...

Therefore fill the advance of the fill of the security deposits.

A Pump PSP was the send if decrypt a file in high chaightfacement. All you send it is notice your fill assent her and you're meter.

return. Next PGP will ask for a pass phrase. Choose something you won't need to write down and you won't forget as you'dlined it every time to access PGP if you forget it, your tops will be useless. PGP will ask for it again so confirm that it got it right ance you can't see what you're hoping at this point.

Now PGP will warn a random bunch of key pleases to intribe a random-sect file. This is a technicality so wa won't go into it, just type until the number toks down to 0 PGP will shen spend some time creating your keys. All we need now is an ASCII version of our public key and to generate this, type.

PGF -kmm <ID> mykey.tmt

Owners To be a part of year own user ID MPD does a welched marts, for seaming IP just user "mail and it packs may key five should now find throw how set for file in the current directory colled mykeybox. Place the current directory colled mykeybox. Place the current directory colled mykeybox. Place the current directory colled mykeybox. The set is not set with the colled and such from the level looks at 1 m a text widtor on type mykey to to take a look at your yell text PSP packs beyond the of these widter year weed to set of in other people for a wider year weed to set of in other people for any machinement or distribution at yell ke, on your home paged Pulsain it a click-on link so directors can serve in out and add of the her public.

Now we'll try a quick test so we can see everything is working OK. Type a little message in a text editor and save it es remimessage, but. Now run through the following:

9gp -on message.txt

CD rem:

wit

Will

When PGP asks for a user ID, enter your own.
Now you'll have a file called message bit asc.

type seesege.txt.nac

See the encrypted text file

delete message,txt

Enter your password when PGP asks for it and the file will be decrypted.

type message.txt

The message has been successfully decoded

In this way we can use PGP to encrypt dryfile be it text or a binary to another PGP user but first we'll need their PGP key. You can obtain my PGP key from beth the fleppy disk celled mat pgp) and on the CD in the Wired World directory again. To add a public key for your public key-mg, firstly you'll need to clip out the usercode-like public key from an Ernail and save it out. The syntax for PGP is PGP—ka kkey£il=s so you can add my PGP key to your keyneng by:

PGP -ks met.pgp

You'll be asked how well you trust that this key belongs to the person it is supposed to. This is a bit overly technical, meintly you just answer YES You can view your collection of public keys by typing PGP -kv and even extract those people's PGP keys from your keyring if you need to pass them to

There's guine a bit more to driving RGP but thirt's the bissess and will get you by managing your collection of public keys, encrypting and decrypting Ermal. See the documentation provided for further information. The particular residers with the cover CD can find useful create information in AmpaGedies form in the RGP directory. Next we'll look at a couple of utilities to make using RGP much seare.

PGP helpers

someone else

PGPtoGUI is a stand alone GUI interface for PGR It handles everything from public kay management to actual encrypton/decrypton, it can be found on the Amset in the path trail/crypt/PGPtoGUIVZ be in a end of course on our cover CD in the PGP chrostory again. After activating the archive, all that is needed in to copy one of the two leans supplied as an .mfo for the executable called PGPtoGUtv2 .0e. Then choose preferences from the project menu and configure the full path to your PGP executable

PGProGUL can even be used to generate your initial secret and public key pair if required. The buttons are protry self explanator y but again you'll need to save out all of your encrysted Emals and such forth as text to pass into PGProGUI. The same goes for encrysted malt, the encrysted text will have to be generated and then included into an Email in your Emol Light of Schiller.

What would be more useful would be to use PGP transperselfly digit where its needed, that as in your text addor I use the commercial Cymrus Ediro pockage which he as in seceletral Affects port and there happens to be some gross Affects exprise specifically to drive PGP Unsurprisingly they can be found on the orthogonal pockage of the pockage to the pockage

Once this is done, this scripts are easily added from ECDs' specifir menu end the Affect/DCS interface section. Encrypt and Decrypt are just added to function keys. Even if you don't have Cygnus Editor there's a heat of great shareware Affect capable editors available. With a little work the scripts could be modified to run on those for transperent PEP usage.

If you've any suggestions for what you'd like to see in Wired World in the future, please let ma know and drop me an Email to mat@mest.net

Mat Bertimeen



A PET computed local year descript both the week, to four their's the idea but with a quant like of a survey, the goal will be described and the Date will not up continued souther compute and this will be soon the subset.



Net God speaks If you remember, the Amige supported the PNG file format in web browsers before env of the bla PC boys did. And es usual CU Amige Megazine (or my column, in fect) was thera to tall you about it before

anyone elea. Unfortunately, there's proprietary technoloay ebounding on the PC Net scana which genarelly means Amige support will never he forthcoming. When I say proprietery technology I em telking ebout RaelAudlo which is a schema for audio to be spooled over the Net to your computer. The outhors of RealAudio have turned en Amige port down flat. However all is not lost as it turns out that there's e new audio format called MPEG 'layer 3' which has better specifications and better still it's not propriatery. It's coming Into Increesing use es e spooling form on the Internet. so all we need is en Amige Implementation, Lucklly. (9rowse's euthor Stefen Burstroem la working on it, so

Viscorp's set top box didn't see the light of dev but Sony's did. New improved Voyager hits the streets and Miami gets SANA2.

Web TV discussion

ony's WebTV has been causing e stir on the Amiga's busiest Usenet newsgroup, comp sys emice.misc This unit pluce into your living room television end ellows browsing of the WWW. Sound familiar? Obviously the WebTV beat VIScorps' "ED" set-top box to

the market so d's interesting to Amiga how it is received There is an interesting dis-

cussion to be had on the subject though sadly it's perbelly swamped with critiques of American computer television programs but it's atill worth a look



Although promised for Mismi 2 0. SANA2 support has been edded to a public Beta version of Miemi 1 B x end should be fully debugged by the time the betas reach 1.9 x (es was T/TCP support see Voyager article).

For those that don't know, SANA2 is the Commodore networking standard for interfaces which connect to networking or TCP/IP software including Envoy. AS225, Am/TCP and now Miami This means that Memi can now be used with an Ethernet board or any other networking device that has a SANA2 driver AmigeNet and MagPLIP for perallel Amaga to Armon use are two more examples Too many other changes and enhancements have been added to Mismi to document here, but one things for sure, it's a TCP/IP stack the Amige can be proud of. Point your web browser to http://www.emenca.com/~kruse/e miga/Mismi html for more details end the latest version



Voyager is looking good and now its evalfable as sherewere intrary to the belief that work was floundering due to Oliv Wegner's commitments to the MicroDot II project, Voyager has received numerous additions to its features list since its public 1.0 freewere release and now its been made available as sharewere.

Just before going to press, the big news was that Voveger has just geined support for Fremes. This brings Voyeger's current feeture list to include; HTML 1.0, 2.0 and 3.1, Internal Image decoding for progressive on the fly Image leading for GIF and ipag. Anim GIF support, HTML 'Tables' and many more 'Natscaplame' supported such as FONT SIZE and HR WIDTH. Voyager also has improved compatibility with broken/nonstanderd HTML code.

Another new feature is T/TCP (TCP for Trensections) which allows much faster HTTP links to servers. This is only currently supported by Miami 1.9.x beta varsions and web servers supporting T/TCP themselves (quite a few). A new preferences page is included with sub-pages similar to iBrowse's preferences. Shiftclick downloading of files to disk added, Internal SMTP send capability for malito: and mailto: forms, improved news handling.

So far it looks like Voyager is the most complete browser on the Amige at the time of going to press though the euthors of AWeb end IBrowse promise Frames support in the next versions of their softwere. Voyeger elso only costs only £15, less then helf of the £35 which IBrowse and AWeb 2.1 cost

Call Active Software on 01325 352250 for registration datalla or Emell them on active@enterprise.net. You can also find a 'reg tool' on the Vaporware WWW site at http://www.vepor.com which will eid registering ell Vaporware softwere in eny country. Latest details are on Vaporwere's web site: http://www.vapor.com/voyeger/

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Surf of the Month

Handing him his packed lunch for sustenance, we sent one man into the Net for a day of discovery .

lere's what he came back with. on our screens for its seventh series, Red Dwarf is as popular as ever especially among the Internet community, even if it does seem to have made a few compromises this time around. If you're a fan of Kryten, Rimmer, Cat, Holly and Esster, chances are you've already thrown Red Dwarf into a search engine and received a throng of web sites dedicated to the unlikely scr-fi sitcom. Fither way, a good place to start is Androg's Brill-Smegging-Illant Red Dwarf Home Paga This site itself doesn't have a huge amount of stuff on it, but it does serve as a neat introduction and offers plenty of links to other Red Dwarf pages and links A little closer to home but still with a tenuous space/earth orbit

The Mac Office's weather satellikes can be access from their own web site. The Mac Office site offers weather reports and forecasts for the UK, up to date pictures of the UK and Europe from geostationary satellities and files to other weether related web sites. It also has a section for job vacancies at the Mer Office. Compared to some American weether sites "It's a bit of a job office of the office of the "It's a bit of a job office of the office of restriction and the York's whize being acrossed to the machine of the office of the proposed to the machine of the office of the proposed to the machine of the office of the office of the proposed to the machine of the office of the office of the proposed to the office of the office of

kind of theme, information from

While most of the northern hemisphere looks forward to warmer times, snowboarders

gening up for a session on the slopes, why not get you'self in the mood by visiting a few snowboarding web states. The Finnish-run Srwbrid's Snowboarding Page is home to all links to slide down xy hills on small sroning boards. World rankings, a deceint picture library and a chat forum are among the many.

feetures on offer Fancy a bit of children escapism? There's always the **Diency** site. As you'd expect, it's one of the better bobling arins and has lost so teep you ecospied. Unfortunately, much of it requires specific PC web browsing software to them properly soft the story books work. As the properly soft the story books work to the properly soft the story books work to the properly soft the story books and the new version of Vayager – it's hot on the hees of current PC browsers. Anyway, the Denny site is nice and colourful and doesn't hit you as hard as you might.







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spect with all the sales patter and adverts Most of us would like to be able to see into the fisture. Surprisingly, some claim they cam Even more surprisingly, even more people believe them! If you want your digital palm read, try hooking up to the Daily Zodiac Forecast, but don't blame us if what they tell you turns out to be a load of cobblers.

You've probably read all about QuikPak's bid for the Amiga in this month's news suction, but if you want to know more you can hook up to their site where you can read an open letter to the Arniga community from QuikPak's bosses, and also check up on their latest plans for new Amiga models, which include a bizarre 'luggable' Amiga based on an A4000T with a flip-up LCD screen.

One site worth dropping into on a regular basis is the Amige Web Directory, which as its name suggests, offers links to all londs of Arniga-related web sites. It's also home to an excellent Amiga news service and is backed up by an Arriga web site search engine. With no official Amiga body to guiz about the machine's future, this is a valuable forum and definitely one to bookmark

If this month's SoundStudio covermount has got you in the mood for a bit of composing, take a look at the Yamaha site for details of their extremely wide range of MiDI and recording gear They've got everything from the cheepest multitimbral sound modules right Up to cutting edge mono synths. Still on a musical thems, Roland have a very impressive sita with an interactive MC-303 that makes Sounds as you twenk it's buttons and knobe but only if you have a system capable of RealAudio, which rules out any Amigu browsers unfortunately. If you're looking for a mixer yon're bound to find one to fit your requirements and your budget.

Spirit site. They've got models starting at under £200 right up to great big professional studio models

Maybe you'd rather just buy some music on CD rather than making your own. If so, the One Store site could be just what you need It's an on-line shopping site that currently is made up of departments selling music, bikes, photographic equipment and educational softwere - a strange mox indeed. Additional departments are on the way, including videos and games. By the way, it's run by those awfully nice guys at Team 17.

Totally unconnected to that is this page of links to football chib home pages. A division of UKDirectory/sport, it offers links to pages dedicated to football clubs ranging from Whitley Bay FC to Manchester United via Dunfarmline Athletic. However, I was disappointed to find the link to fun sounding 'Arsenet', an unofficial Arsenal page, lead to nothing. By tracing the URF back to the main UK Directory you have access to a vast number of sites sorted by subject matter, including business, community, computers, education, employment, entertainment, finance government, home pages, news. shopping, sports, transportation and travel. Another one to put in your hotlist.

Budding artists and animators can check out loads of good ideas and technique examples at Emmett Scott's Cartoon Corner it's full of ideas to make your own cartoons

Those sites in ful https://www.geneition.com/Hollywood/6671/im

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more punchy, effective, and above all just plain funny There are sections a number of different aspects of cartoon creation including cancatura, animation and drawing tricks, it's decorated with next little cartoon images that, for a change, are stored using only

the required amount of colours for fast downloading.

Wa'll finish up this month with a quick look at the Hard to Find

Records web site This is a Birmingham based shop specialis ing in rare and deleted dance records Most of the stock seems to be classics from the world of house and techno, including many imports. You can browse the stock list alphabetically to check if they have your particular tuna. If yon're not sure of the name of your desired record you can even send them a tapa and they'll do their best to identify it and track it down for you. Expect to pay between £4 and

£30 dapending on the collactability of the particular slab of vinyl. That's all for now. Happy surling!

Tony Horgan



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 - Create SUPER intelligent GIANT med level and
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the development of this Software)

A STATE OF THE ART SOFTWARE CREATION SYSTEMS It's versatile . It's easy to use It's incredibly

fast -It's the biggest aver breakthrough in Amiga software creation and has already been used to create twenty commercial games and a multitude of PD software!! you can use an AMIGA you can use REALITY

once complicated programming routines reduced

MORE THAN TEN 90% SCORES NAVE BUTTON AWARDED TO REALITY SO FAR FROM MANY DIFFERENT AREAS OF THE AMIGA COMMUNITY! The very latest version of the REALITY software

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construction kit which incorporates a whole batch of useful and essential utilities. These include an niroduction creators, a FULL blown paint package Text editing and disk utilities plus much much moral You'll also receive a fully detailed user friendly instruction guide and a frandy hints and lips guidel Two further guides that will show you how to make two full blown games from scretch! Two full blown commercial games that have been created using REALITY for you to adapt and learn from! Issue one of the REALITY USER CLUB disk magazinel Two packed disks full of sound effects images theil can be used in your own software These include characters, anemies, weapor bonuses, scenery, fonts and MUCH MUCH MOREIL

full blown top quality software with many Yes'll also get FREE membership to the Reality User Club!

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mouse and pointers aran't anough end only a text command will do. Real men don't usa WIMPS ...

If you have been following this series of Mastaclass than you are probably ready to leave the comfort of the Graphical User Interface behind and go off to explore the Shell.

the Shall.

So what exactly is the Amiga's Shall? Is it is hard ancrusted covaning that susceptible and the same that such a state of the same that such as the same that such a

Top instructor

Top instructor From this Shell you can anter a wide lenge of commands which can achieve everything you can do from the Workbanch and a of more beides. This Shell and Workbanch compliment such other estimately well containly more than, any, an Wost Corp. And as for Angle Mans. well, if you really need to enfer text commands on an Apple May ou must clearly heave the wong sort of computer.

There are a large number of AmigaDOS commends, and as we saw in a previous apisode, most of these are stored in the Workbench's C. directory Hopafully you will have already played sound with the Shell (perhaps to use Affect) and so you il know some base. AmigaPOS commands, such as "CD"." DIR" and "ED"

There are times when your

RAMs 'n' List The key to knoping track of your

files is to know and love the AmigaDOS 'List' command List is superficially similar to 'DIR', as by default both will

to 'DIR', as by default both will produce a list of files in the quirent directory However, List is considerably

more powerful and has a million and one different options which can produce a datelled analysis of your current directory Both List and Dir will accept an argument in the form of an

AmigaDOS device For example, you can obtain a list of the files in the RAM disk by typing

dir ram: or list ram

You can see that the results were an expension includes extra information such as the files' status flags, the creation data and time, and the file size. This is only the start of what List can do the thera's an example.



A. The got more or less the more results whom you type in eather die ram: or hat ram: though hat provides a facto overs information for you to go through.

you remembal creating a particularly good patient in you favourist art program, but you cannot samenbal the file neam on care you remembar white in dock in feet, all you know were that you sandered the pectual in the first week of January, and that the first week of January in the January in the

less frustation and searching. Please note: this exemple assumes you have a battary backed clock fitted to your Arrage — flyou don't, note of the files will be dated properly. Most A 1200 expension cards have battery backed clocks though so there isn't much cause for

save yourself hours/weeks of end-

you to worry as it should work.
Two of the knywords which List accepts an Sinner and
"Upto". The first, "Since", will list only those files created after the supplied date, whilst the second, "Upto", will list files which have been created before the supplied date. They can be used supperately, or combined to define a senseal "wordy" in time.

a special 'window' in time The following is the List commend which will list only those files present.

list 97.iff since 01-jan-97 upto 07-jan-97 all nohsad quick files

It looks a bit complicated, but we'll take it step by step. First of all we use a wildcard, which restricts all the files to those ending in 'iff'.

The 'Sinca' and 'Upto' commands are hopefully self-explana-



Templates

If you need a hand using an AmigaDOS command, that e's always help to be had. If you went to know what eiguments to use with a which is a question mark, like this

list ?

This produces ellist of all the options which can be used with the example, here's what you get in return

DIR/M, P=PAT/K, KEYS/S, DATES/S, HODATES/S, TO/K, SUB/K, SI NCE/K, UPTO/E, GUICK/S, BLOCK/S, NONEAD/S, FILES/S, DIRS/S , LPORMAT/K, SORT/K, USERS/a, GROUPS/a, ALL/a:

Here's what those code letters actually mean

/A - Argument Something must follow in order for this command

/K Keyword, The word itself is optional, but if used an argument is

/s Switch This turns an option on or off

MICHAEL CORRUS F LEBYS, DYTER/B

tory Remember that AmigaDDS will also accept the words Today' and "Yesterdey"

The 'all' keyword forces the flat

to be performed not only in the current directory, but also in all the sub-directories as wall For exemple, if you are currently in the Workbanch, directory this will force List to look through S . C. I. and so on

NOHEAD

The 'nohead keyword stops list from displaying the current directory name as it exemines it. If you leave it out, you'll see a large number of directories listed oneby-one

QUICK

By using 'quick' we keep the output to a list of names only, and do without the flags, file size and creation date

FILES

Including 'files' stops eny diractoiles which were eltered within the dates from being listed As we only want to find a perticular file, this will speed things up

There - I bet you never knew there was so much to the List command it's a very effective taal far helping you treck down files. There ere plenty of keywords too, here are some more which you might find useful.

DATES

If you have switched off dates by using QUICK, this will cause them to be displayed again. For

list quick dates

This will display only filenames and detes, and ignore flegs and

DIRS

In the same way in which FILES suppresses the listing of anything which isn't a file, so DIRS suppresses the listing of envthing which isn't a directory

list nohead dire

LFORMAT

In case you thought that List was in some way limited, the LFOR-MAT commend is what you need LFORMAT takes a string as it's

LFORMAT

Use List with LFORMAT and you can fine-tune the output exectly what the output looks like Here's a list of the special flags in the

%A - Attributes (the flags)

%8 - Blocks (e measure of file size)

%C - Commeet (some files keve abort text strings essociated with it)

%D - Date of file creetion (or lest modified) %K - Key (an Indication of the fifes location on disk)

%L - Leegth (In bytee) %N - Neme of the file

%P - Petk of the file

%T - Time of file creetice (or lest modified)

You can also use your own text in the LEORMAT string in your

list lformat "The file %n was crested at %t and is found at 'wo" This control is perfect for creating text files which contain the

argument, and the contants of the string determines exactly what is displeyed and in whet older See the box out for more

NODATES Stops Dates from being dis-

played Don't waste your time using it at the same time as Exemple

list nodstes

This will suppress the date end time data from display

TO

When TO is used, the output from the List commend will be sent to following file Yes, you can do the same thing with the re-direction ">" option, This is more legible though. Exemple

list since 01-Jun-96 to ram:wwfiles

This can be useful if you need the files sorted into order Unlike Dir, List will not sort the files However if they are stored in a file you can use the AmigeDOS command "sort" to produce a new, sorted list.

USERS

Sorry, I've absolutely no idea! Answers to the usual address pleasal

It's easy to see why List Is such an important command to get to know it will help you keep track of all your files end it's elso invaluable when writing scripts either in AReix (such as Killbak) or in AmigeDOS,

Any bright ideas? If there is eaything that you would like to see a mes-

tercless tutoriel ee, plesse write le eed let us know. Likewise if there is say subject that is not covered in the workshop section that you would like to know more about please drop us a lise et CU Amiga Megeziee, Priory Court, 30-32 Farringdon Lane. Loadon EC1R 3AU.

Seek and destroy

Looking after the lifes on your floopy and haid disks can be a chore There are so many, it's easy to forget what most of them are for Before you know it, your hard disk is 90% full and it's time for a bit of a sprug clear. One of the most useful programs I wrote was "Killbak". which searches through the current directory (and subsequent subdirectouss) looking for files ending in " bak". These are files which application programs often create when saying projects, for exemple, you may have a text project called "article doc". When you edit it and save it for the second time, the original will be renamed "arbole bak". Once you have finished the project the ".bak" file is useless, and simply consumes space. Nuke it! KillBak is included hereabouts, and also on the CD-ROM. It's written in Affect, which meens it's simply an ordinary text file until it's used with RX like this

RE resikilibak

which executes it. In this case, I've copied the program to the RAM disk to start with Remember Kelbak will work with the files in the current directory. So if you want to delete all the "bak" files from the Workbench partition of your system, keep the Killbak rexx file in RAM.

CD workbanch:

```
before you run it. Here's the listing (it's on the CD in the mag drawer.)
```

```
Search for file names
ending in $7bak, and then
delete them if necessary.
     (r) John Kennedy
```

address command /* Use AmigaDOS */

```
/* First, generata list of files & sisse */
```

Say "Making list of all files in current directo-TY---" 'list lformat "%p%m %l" all files > trtemplist'

/* Now, search for those sading in .bak */ Say "Adding up file eieee .. "

infile-'infile'

do while -eof(infile)

total mixe-0 manhar-0

call open(outfile, 't:report', 'w') call open(infile,"trtemplist",'r')

dete-readlm(infile) if data-w'' them do pares var dete namepath " " sies if eixe-'empty' them eice-0 test=right (namepath, 4) if (tset='.bak') them do

total_eize=total_eiee+eiee number-sumber+1 call writeln(outfile,namepath)

cell close (infile)

/* Process the files if required */

say "Number of back-up files:" number say "Drive space taken up: " total_eiee

if number -= 0 them call ProcessFiles()

/* 311 doom! */

'delete "tireport" quiet' 'delete "t:templist" quiet'

ony "Finfshed." owit

ProcessFiles: ABSTRACT.

do while (answer-="D" & answer-="C") eey "[D]elete files or [C]ancel?" pares pull snewer

answarwupper (answer)

select

when answers'D' them call DeleteFiles() when answer='C' them return

Deleterileer

answers! " "T'wexi2moo do while (answer-w"A" & esswer-w"C") may "Delete [All] or [Clonfirm each one?"

parse pull answer answer-upper (answer)

call open(infile, "t:report", 'r') do n=1 to number file-readln(infile)

dets='delete \||d2c(34)||file||d2c(34)

if (answers"C") then

do while (comfirm-="Y" & comfirm-="H" & confirm-="0") eay "Delete " | file | " [T]ee, [N]o,

[G]wit?" paras pull confirm confirm-upper (confirm)

if (confirm-"f") then interpret(data) if (confirm-"Q") them leave

call close (infile) return

FAQ

Frequently Asked Questions

With all this uncertainty hanging In the air, is there any point to it ell? Yes. And hare's some reasons why.

EQ. What is the Amiga good at?

The Amine is still an excellent home computer. Easy to use and reliable, it's cheep, easily exmanded and works with any colour television. The Arniga is still the best way to get into fields such as desktop video and music rt can do both right 'out of the box' with no extra hardwere required With software packages such as Finel Whiter, WordWorth, Draw Studio and Art Effect, it can compare very favourably to application software running on other platforms. The Amica also has a vibrant

The Arnga also has a wbrant sharewere and public domain soft ware score. With resources such as the Arnmach, there is no way you'll run out of new and interest rup programs to use on the Arnga. The Internet has also allowed Arniga tesens to get together and chair, which means there is always a large and popular lar Arniga crowd for that with Ira Arniga crowd for the think Ira Arniga crowd for the th

EQ. How does the Amige Operating System compare to Windows '957

BAL in many ways, the Amiga Operating System is considerably better than Windows '55 it's a lot more compact for a start and it's possible to own an Amiga with only 2Mb of PAM and a single Roppy disk drive and still get work done. By contrast, en entry linval PC now features 16Mb of memony, an 133MHz Perthum and a 16b hard drive.

The Amega OS is also very fast and supports superb multitasking features: Tying the OS to the Amiga hardware makes it possible to perform such tricks as dragging and flicking screens: something not possible on the PC. The Amiga also comes with Affenc, a powerful scripting language which can be used to link application.

programs together. There is still northing quite like this on the PC. There are flowers of course. Windows includes reliable and meisible Virtual Memory as standard, as well as support for networks and the Internet. It's also easier to upgrade suppartite components such as the graphics or sound system.

IIQ. How does the Amigs hardware compare to that of the PC?

PLA. It cennot be deried that the years have not been lind to the Arrosa. The raw processing power of the PC and constant development of graphics cards mean that impressive games like Qualet are repossible. The new generation of graphics have the procession of the

IRQ. Do I really need to upgrade to a PC?

■A. No, of course you don't. All your existing Arriga software will still work, regardless of how many copies of Microsoft Word ere sold. If you have an Arriga with

an 030 (or even en 020) and 4 or 8Mb of extra memory, you need a very quick PC before a program such as Word will work as quickly

If you buy a PC, you will need to be prepared to upgrade it regularly unlike the Armiga, PC's data extremely quickly By the time you need this, there is every chance that the Pentium processor itself will be out of date and you would be expected to buy a new Pentium MMX chip.

The same goes for memory.

Pentium MMX chip
The sarma goes for memory
and hard disk space. Whilst BMb
on a Amiga is plenty, you need
16, 32Mb or more on a PC for
the same results: If you bought a
PC with a 75MHz Panthum last
year, you'll find it's too slow
for most garnes and large
applications now.

EQ. What about a new Apple Macintosh?

EA. Apples look smart, but they are still very expensive. Unlike an Arriga (or even a PC) you cannot buy a cheaper model and upgrade in stages. The operating system is claser to the Amega's than the PC's (if you can cope with a single mouse button) although you'll miss features such as the Shell and being able to obtain shareware or inexpensive application software. Apple as a company are currently undergoing big changes, with acquisitions such as the NeXT Step Operating System, so who knows what the next generation of Apple computers will look like, or what software they will run.

Q. What about the future of the Amigs? Does it have one?

Although the ViScorp deal seems to have fallen through, there are still plenty of other interested parties looking at the Amiga If new Amigas are to appear, there are several options. Either the Amiga could live through the continued use of Motorola 68060's processors, or the OS could be resurrected on some new hardware (such as the proposed Phuse5 system). This could incorporate a PowerPC processor libe same as used in the Apple systems which is renowned for being nippy and a good 680x0 emulation) and custurn hardware for controlling graphics and sound Hardware has come a long way since the 1980's when the Amign's custom chipset was first designed, a systern designed from scratch would be able to deal with 3D textures and real-time full motion video as easily as the Amiga deals with the Copper

The Arniga Operating System will contrarily not be forgotten; not be forgotten; not many people it's more important than the Arniga hardware. As proved by PC programs such as "LIAE", the OS can be run on other platforms and this will ensure than the Arniga Workbeach and Arniga explications will still be used many years from now

IIQ. Should I still spend money on my Amigs?

■A. It you intend to continue to use your Arrangs, there is no reason not to. Recent software releases are excellent, and extremely good value for money-septially when compress to especially when compress to specially when the context of the comparation of the property of the context of th

Logos, meanings and mysteries:



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Everything you need answering shout the internet



Not svarything fits into a pigeonhole, but anything you like fits in here.



And it's a very warm welcoma to CU Arniga Magazina's version of Master mind. Please give a big hand to your contestants Mr Andrew Korn and Mr Mat Bettinson. Tonight's subject ie the Arniga, from 1985 to the present.



Andrew lives in north London and is versed on everything Amiga. His chosen topics are hardware and utilities.



An ex-technical engineer, Mat specialises in the Internet: what it is, what it does and what it has to do with the Amiga.

Tower critical!



I have an A1200 with an infernel 3.5" Quentum Lightening 365 Mb IDE hard drive. In the near ould like to buy e CD-

future I would like to buy a CD-ROM such as the Bx Samsung IDE. I have just bought a fower with 200 watt PSU and internat cebles. I want to put the CD-ROM into the tower Bearing in mind the possible power supply problems if I fit a BOMHz accelerator in the future. 1. Which is the best option? To

 Which is the best option? In remove the hard sinve and use it with the Alfa Quatro in the tower with the CD-ROM or leave the hard drive in the A1200 along with the Alfa Quatro and take an IDE lead to the tower for the CD-ROM?
 If the herd drive is put in the

 If the nero cline is put in the tower does if matter if it is put on its side rether than flaf
 Is 300mm a 'safe' meximum length for an IDE cable?

A. Robinson, Hayla, Cernwell. First of all, thanks to Gordon Moss,

Ryan Morgan, Greg Fox, Mr. P.A. Burgess, Norman Haigh, Derek Gescolne and mosy other who have also written in on the subject of towers cause. It tooks like we will be golag ahead with a feature on DIY tower conversions. Correspondents seem to be

expressing most interests to far in a sing a mint tower to hold CD-ROM divies make divies, the A. Robinson, but we would like to take it in step further and look into fitting the AIZON mother-board into the case, maybe even Zorro isto exponsion. Keep your enumerate conting in. In the meantime, we are going to

answer A. Robinson's latter as it seems fairly representative of the letters thin we've been receiving.

J. Don't move the hard drive if you don't have to, although 3.5" driver can be gaste a louid on your power supply. Moving your drive meant the power can be sappled from the lower FSU, leaving your computer's FSU enhanced seed.

2. Modern hard drive can take all.

2. Moaera nara arvee cun taxe au worts of rough treatment. However it is best to avoid putting it on its side especially if you have a CD-ROM in the towar too as your discs will keep falling out.

3. Oh deer, a contentious issue.

3. Oh der, a contentious irinu.

Vertraan projek new vertret in curve vertraan kondungen vertraan projek new vertraan kondungen vertraan v

— I haven't heard of a ringle eate and it seems unlikely. I'd expect problems with abuffered interfaces and long cable lengths to lie in capacitive loading leading to anreliability rather than CPU death. In practice keeping cable lengths to as!

If only ...

What is the difference between a 260 internel disk drive for the A1200 end a £16 drive for e PC? I heve just fitted a new disk drive and it looks very much like e PC

one. It even had the HD detector switch. What is stopping the Amiga from formatting at a higher density?

W.G.Hall, Bishepsgarth, Stockten.

The Amiga expects the dusk drive to test is things when it hosts up and when a dusk is changes? PC drives, don't do this, An interface can be built with a few fill-fillows and gust, built with a few fill-fillows and gust, built with a few fill-fillows and gust, built with a few fill-fillows and substances to the fill with a fill-fillow fillows. I not a fill with a fill-fillow fillows the fillows and which means replacing the actifillator cyriat and a. look, just hay an Amiga ID drive instead Sury.

A500 + CD32 =? For the pest four years I heve been



memory expansion unit. It has been adequate for my purposes thus fat, but I now wesh to upgrade to a new system, meinly to have access te the large freasury of activers available on CD-HOM in edition to the advanced AGA graphics and the letest Workberch. The Eyetech SKSZ Combo Pack seems to be a very attractive upgrade option I would be oblighed if you would whighter me on the following

 What is the difference between the SX32 and the SX32 Pro7

2. What are the adventages of this Combo Pack as compared to an A1200 with similar specifications and a CD-ROM drive?
3. What would be the best way. to connect my A500 to a CD32? 4. Is it possible to use the key board and disk drive of my A500 with a CD32 in order to convert it mto a fully-fledged, up and runnmg A12007 5. Is the A570 CD-ROM duve

still evailable and did it require env modifications?

0

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Four

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itran

bе

Semir Bharadwai, Sultanata of Omen.

A lot of readers are tempted by the notion of approduce a CD32 to turn it into a CD-ROM equipped AGA super machine. It isn't all that straightforward and it doesn't work aut ull that cheap. 1. The primary difference is that the SX32Pro has a faster processor in it,

while the SX32 has no facility for changing processor. 2. The differences are small. The A1200 won't cope with some CD32 gamee, but is more exposiable.

3. The CD32 S-port, from Marnet developments (01423 712600) is probably your best bet. It's just fust enough to get away with using the CD32 as a CD-ROM drive but don't expent it to give your A590 access to the CD32's 68020 processor. 4. No. If you want to turn o CD32 into o full AGA computer, you'll have to go the SX32 route or buy an A1200 and CD-ROM, A500 + CD32 doce not an Al 200 make.

5. The A570 plagged straight sato the A500 with no modifications but is did require OS2.0 or greater, 1 haven't seen one on sale for over but Golden Image (0181 900 9291) will sall you an A500 CD-ROM if you want one.

Windows Amiga



an emulator 2. I d elso like to ask what ere those Zippo drives you plug into the side of an Amiga? 3. Would I benefit from buying a herd drive or a CD-ROM? If so how many Mb of RAM should I get or what speed should the CD-

4. Could I use the Internet end is there anything for the A800 to speed it up, something like the Viper, for example?

Brett Edwards, London.

1. The best way of running PC software is on a PC. If you want a PC/Amiga combo, talk to HiQ about their Siamese system, Software emu lation In the form of PCTask 4.0 (£69.99, from Wizard, tel.: 01322-527800) and the forthcoming PCx works wonders these days but they are too slow for serious use. 2. Hmm. If you plug a Zippo Into your Amiga you will set fire to your

PCMCIA port; Zippos are refillable lighters. I guess you mean either Zappo, an old PCMCIA hard drive/CD-ROM controller, or ZIP. the mass storage device from IOMEGA, whish most users plug. via a SCSI laterface such as the squirrel into the PCMCIA slot. ZIF drives are fast, barely slower than a hard drive, store 100Mb on a £15

disk and are as robust as a floppy. Top devices. 3. Yes! Hard drives may sound to those who haven't used them like a menor convenience, but buy one and you will never regret it. They cost very little now and we cannot over emphasize how much easter and bet-

ter it makes asing a computer. CD-ROM drivee are great, mainly because they allow you to use our amazine CUCD-ROMs every month. which is kind of like getting 700 odd floories mounted on the caver only quicker und a lot less heavy, hut if you don't have a hard drive, save up and buy one as soon as possible. You will thank us.

4. Yez, and Yez. It is colled the Apollo 620, and we gave it 91% when we reviewed it a year ngo. Shop around for best price or call Visage on 0115 9444500.

Hole in my GIF

I have recently joined the Superhighway and em meking my own pages. I

need to make transparent GIFs (GIF89a or something?), however I can t find a way to do this on my Amiga 1200 (WB3.0, 2+4Mb RAM, 2 1Gb HDL

I've read about loaders/savers that allow you to do this for venous softwere a g PPaint, but I can't find such softwere arwwhere, I own PPaint 6.4 and Photogenics 1.2 if that's of eny help

Adam Smolarczyk. edem s@eustreliemell.com

PPaint is a great tool for producing artwork for Web pages but the GIF loader is not included in PPalnt 6.4. CIFs ore a proprietary datatype and commercial use has to be paid for - hence Closuto supply the GIF loader as #D rather than with the release.

However, GIFs 'awaers'. Unitys, are coming down on this too, so your best bet is either to upgrade to the brilliant PPaint 7 which has GIF support, or use a graphice conversion utility such as Ultracouvert, which will convert IFFe and Anims to GIFs and AnimGIFs with transparency.

17" too big?

Amige 1200 with

6Mb RAM 210 Mb hard disk and 50MHz '030 accelerator 1 em now senously considering upgreding my Amiga agen and would eppleclate your halp 1, In the August 96 issue of CU. there was a review of the Microvited M1764 17" monitor Is there a 14 or 15" varsion of

Currently own or

this rhonitor? 2, I am going to buy a CD-ROM drive and leter a tower case with Zorro slots for my machine but am unsure which CD-ROM drive to buy Which ones would guite happrly work with my standard A1200 and could at a letter date be pleced into a tower case?

3. By how much will an FPU speed up packages such as Imagme 47 4. Are there any plans to run C++ tutonels in future issues of CU Arniga Menazine?

Christopher Caleb. The Republic of Email.

1. Microvitec do graduce a 14" monitor, the 1438, although it is not a smaller version of the 1764. However, it is a good multi-syne monitor for use with video modes and graphics cards. It lacks the excellent digital screen mode controls of the 1764 but is still highly recommended. 2. Any 100% ATAP1 standard LDE

drive will work. 3. A lot, An FPU can actually make significantly more difference to maths intensive software such as Imagine than a CPU upgrade. 4. A few readers have expressed an interest in this idea recently, we'll look into it.

My own game

I recently designed a space strategy geme and was

some advice 1. I was thinking of sending the design to a software company for evaluation, how detailed would the design need to be?

2. How would you recommend ! copyright my game? 3. Which software company should I send the design to? 4. If the design is eccepted end published what sort of royalty

would I gat? 5. What are the chances of a design from someone outside the company being eccepted in the current Amiga market?

M. Smith, Bremley, Leeds.

1. Oddly, not too detailed! If you send 100 pages of designs, no-one will have time to look at it. Your first letter should contain just enough detail to give a good idea of what the same is about and to Introve the software company enough that they want to contact you to find out more, and an langer.

2. As soon as you write something, you have copyright. To protect your copyright, sost u copy hy registered mall to yourself before you post it to anyone else and moke sure you keep the envelope esaled. 3. Look for somposies still octive on the Amiga, whose products are close but not too eimilar to

your idea 4. This depends on the individual company, how many people are required to work on the project, and how camplex the coding, graphice and sound are, and so on, If you are warried about being ripped off, look for a software ugent to negotiate

your contract. S. There aren't u lot of Amigs games being produced these days, so the demand for designers isn't high. You may have more lunk if you so to o software house which converts to other systems as well. However, there will always be interest in a design. good enough to be the next Worms.

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Backchat

Don't be shy, find your voice amongst the thousands of Amiga owners out there. Write in to Beckchat and get yourself and your views noticed.

Brainwashed

CU Amiga Megazine. I just had to write in to agree with James Pullens' comments (latter of the month) The Amiga must shout out. It is losing ground rapidly because there is no one out there shouting about how good it is The Amiga is a powerful mechine aspacially for us home users. As has been stated and no doubt time and time again will be said it can do what any PC can do. If people can be land eway so easi-Iv then the Amiga must be in there doing battle with the PC. So. let's see some brainwashing for tha Amiga

Keith McMaster. East Yorkshies.

We try and do our best, really we do.

Not beginwashing mind, Keith but in keeping people informed about just how great the Amigo is. Maybe we may see some form of advertising for the Amiea in the near future. So. fingers crossed.

Shopped again

Though I think you section shoppers corner where you name stores which atock Amiga programs is a good idea, aspecially in these times when its so hard to get Amiga software in the high street, I do think you should check up more on the information given to you For example, in January's edition you mantion a few shops in Wood Green which cleimed to have Arniga software but they don't Multimadia Discount Shop this does have a small Amiga game section (about 13 games) most of which ere either old or

compilations as opposed to about 200 PC gamas/programs 1 wouldn't traval any dis-

tance to get games from here Tandy they have a kind of beigein bin and have absolutely no Amiga software their anymore WHSmith again, they used to heve, but this was a long time ago. thara is NO Amiga software there at ell. The place your most likely to acquire Amiga games is called Shakhana Computars and Communications. Its next to the video shop opposite the

bingo hall at Wood Graan They hava about 40 titles there The newest being Worms, though most of them were pretty old Hrt Squad re-raleasas

Deamond Anglin, London.

Thank you for your comments Desmond. The list you mention was compiled by us and based on research we carried out ourselves quite a long time ogo. These were included to kick off our new listings section to we accept that the level of service may have changed. However, we have introduced a more detailed tervice whereby readers send in their comments so you set a more up to date picture (see column fur right). This service will be updated every tix months to keep it currently relevant. Hone that answers your query and you got o free plug for Shekhana Computers.

Suspect survey

I picked up your January issue from my local Amiga daaler and noticed a survey form in there. I thought I might answer this survey, but could not find the form on the CD. Surely you don't expect us to type it all in do you? Of course readers in the UK will probably just write their answers on the form end post it in, but that would be much more expensive for us over here on the other side of the world. Whereas Email.

If the servey form is on the CD, could you tall us the path to the file? Getting onto specific questions I found one to be particularly strange - the one about if bought a IBM PC, how soon would I stop reading CU Amiga Maybe you don't realise it, but not every Amiga owner that buys e PC does so to replace their Armiga In fect I bought a PC

clone two years ago, for work purposes. This does not mean I use my Amiga any less, or stop buying Amiga magezines The Amiga is a hobby, and I

anjoy using it (well tham actually, I have a 1200 and a B2000) Tha same cennot be said for the PC I have been using an Amiga for the last 10 and a half years and will the next 10 years, and will contin ue buying your magazina (as long as I can get the CD version)

Of course like any of these surveys, a lot of the questions ara for your advartisars banefit, rathai than anything to do with the magazine or Arnigas or even computing as a whole I can't see what ralayance the consumption of alcohol is (I am a Baha'i, I don't drink alcohol) but I hope you don't intend to have alcohol edvertising in your magazine

Ross Daeisy, USA.

You're right, there was an nwful lot in that survey to fill in. Directives from 'above' came to us at a very late date that a survey was going in be included with that issue, and because of the timing of this decision it was not galte to our tiking (handled by a different department

from the normal editorial team). We did actually have a version of that survey on our Web site for a time and got lots of useful feedback from that, We'll continue to nut other much smaller occasional overtionnaires on the Web site, so drop in every now and then to see what's

ир (ини.си-атида.co.ик), Most of those 'lifestyle' questions are indeed posed to see if it's worthwhile for companies outside of the

Amiga see as to take advertising space in CU Amigo. We'll be publishing the results of

that survey and the survey corried out on the Web site in a forthcoming issue (at the time of writing the results are being compiled, so we should be able to bring them to you next issue). It will be interesting to see how many people said they



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Arniga is saved? I think not in fact it would new Arniga. The AlBox has almost nothing to do with it! Wasn't

that what we had been waiting for? Something totally new We PCs sust plain old boosted technology The AlBox is really the next BIG step for us . If Phase 5 does

eald all sorts of questions come to mind should I buy It? Will it I implore Phase 5 to allow maximum Amiga emulation on his

new machine. This is really importent because being unable to use old Amiga softwere could stop people from buying. Also it is

when the AlBox comes out. Not really games (although it surely could help), but ed C language, a music cleation. maker (Spale 5?), etc. because I sweer won't buy a machine on which I can't cre-

know it will probably surrepresents the new breek-

> Diago Pappalardo, Emailand.

Well it hasn't quite arrived yet but we were so excited about it that we had to tell the world. As you say, it's not actually an Amigo, but it's what we have been waiting for. The Amiga scene is loyal, but those involved in it know what they want, a cutting edge affordable creative computer platform. As an Amiga magazine is might seem strange that we are pathing a non-Amiga platform when others are singing the praises of other proposed official Amigas, but we have a duty to give our readership honest, informed opinion. Let's hope this pioneering work from Phase 5 shakes up the ideas over at QuikPak, who currently seem to hove a less realistic line up of new Amigas.

would like to see more does and cats in the magazine, as asked by one question? Lynx footy

In the November Issue, the arte of John Tomic, Malbourne, the month in your comms section Australia. Email: etom@netwas the Cerling Premiership site This site is wonderful if you have a graphical browser But if thera

are people out there who use ALynx extensively, a Lynx friendly site for UK soccer results is http://sacceinet.com.

apaca.net.eu

CU and UK footy fens thank you.

Come and get it

The fottowing is a listing of recoi

ABFORD SAME, 4 Derley Bradford , West Yorkshop Tel. 01274 305055. (Games utilities, CD32s.) * | | EASTEORNE Electrodes Bestique, Espébonie Amdets Cantre (Gomes, accessories)

介介 田田 田 ENETER Bactrealca Bestiges, High Street, Exetas, Devon. (gomes, utilities, educa-

tional software and accessones) ** = = BRASSS Bectronics Beetigen, Ensignte Centre, Inverness, Tel. 01463 716 464

Gemes, occassones ** | | |

INCOLIT Microporet, Since St, Lincoln (games and reports) ** III

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722 499 (Tons and tons of software) ** * 🗷 🔳 🔳

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For the month's centres thanks to. Wayne Pyrom, Lincoln, Gareth Murlin. Newcastle, Dava Enfield, Southampton Charles Penny, Hants, Andrew Firtzgereld, Rotherham Jason Hill, Comwell. Stephen Wolstenholme. West Yorkshire. MJ Kay, Bolton Colin Kennedy, Isle of Lewis Martin Den, East Sussex: Grahem Herniton, Devon Ken Smith, Lancashina

Provious natros include Crawe High Street Micros Successor The Competer Store

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Points of view

Gonna have a revolution



This month you're one big step closer to being able to master your

66 With a single blank CD setting you back about a fiver, DIV CD production is now a solid affordable reality. 99

own audio CDs from your Amiga. thanks to this month's excellent. SoundStudio cover mount.

Who knows? Maybe we're on the brink of fawning a whole cottage industry of people producing music from their bedrooms on their Amiga. cutting their own CDs and then purhaps selling them direct to the market themselves, cutting out the middleman all together Perhaps it's long way off until this

is a reality but until very recently mastering your own music CDs was out of the question. CD audio writing machines' would cost thousands of pounds and were only available from a select few professional audio shops. Now you can get a CD-ROM drive that also writes CDs for around £300! With a single blank CD setting you back about a fiver, DIY CD production is now a solid affordable reality

This is one of those little technological revolutions that seems to croep up and then suddenly jump but at an unsuspecting public. For computer-based musicians this is as big a step forward as the

you know in possession of a CD player. What format would you rather use? If you still think there's a catch, wou're still convenced this can't purte be true, think again. You don't even need a 16-bit sound card or a fast a conventional CD-ROM of course) and SoundStudio, all you need is any

emergence of MIDI and even

sampling. A musician on a budget

CDs with nothing more than a com-

puter No mozer, no keyboards, no

ditional outboard gear is actually

Apart from studios and record

company HQs, who do you know that actually has a DAT player? Now

compare that to how many people

required any more.

can now press up commercial quality

affects units, in fact none of that tra-

Compared to mastering to DAT, cutting a CD is infinitely more useful

Armga With a CD-writer (doubling as Workbench 2 or more recent Amiga, a couple of mags of RAM, a hard drive and some CD writing software that's it! Now if that's not a technological revolution then I don't know what is III

Further education



The Amiga is supposed to be the ultimate home computer cheep and well catered for in terms of software

66 lan't there another area that home computers are used for? Yes education. But where's all the software? 99

for games, word processing, DTP, graphics and music. Hang on, isn't there another area that home computers are used for? Yes, education. But where's all the software:

Generalisations can be annoying but more often than not, there is a grain of truth in them. Generally speaking, most home computers are bought by parents to do a bit of home accounting, word processing and so on while the kids can use it to play games and help with their homework And in today's climate chidren need all the help they can get in trying to educate themselves

We are supposed to be in the technological era, our children are meant to be reciting binary in their sleep and surfing the Net for their recreation time

So where is all the Arniga's educational software? There just isn't any. at least nothing much appeared in the last couple of years. Correct me if I'm wrong but I only know of Guildhall's 'Ten Out of Ten' educational range and some encyclopedia from Epic. Harnly, enough material to formulate young Einsteins let alone give a helping hand with the basics of the three Rs or anything as taxing as learning a new language

Perhaps the advent of the internet taking off has replaced the need for children to have educational software as they can find out most information they want here, once they've sifted through all the other irrelevant mater ial that the Net seems to be crammed full of

However, not every child has access to a modern PC software manufacturers recognise this end have the market well sussed. There are copious amounts of learning and educational material available for the PC. There is even a new magazine coming out dedicated just to children's educational software on the PC, so the demand is there.

I don't know the real reasons why there an't any educational software available for the Amiga (opinions are welcomed an can be sent in to me at the usual eddress) but I do know that rt is an opportunity is being missed out on Please rectify.

Whole lot of shaking going on



by Mat Settinson We find ourselves in much the same situation as before; yet another company looking to take over ownership of the Amiga and manufacture

them once agree However, this time the situation is a lot different and we are in the menu fortunate situation of instead of haying more then one major contander This puts us in a better position than solely relying on one seviour for the Amiga. As we have unfortunately discovered to our disappointmere in the past relying on one saving light is not a good idea

Most of these contenders are

actually either producing machines

or plenning to produce something resembling an Arniga so again this is welcome news. However, they all appear to be coming from different angles when it comes to their vision of the way

forward for the Arniga So what exactly is the current situation as it stands and how is it different from what we have seen before?

Firstly QuikPak are actually a manufacturing company Already they are making promises about releasing new up-spec Arrigas, you know, the kind we said Commodore should have released several years ago.

Coupled with promises of new machines, QuikPak have gone on record as saying they're looking to the incredibly powerful Dec Alpha RISC chip instead of the Motorola PowerPC

However, the drawback with this is that it's too expensive for the lowand market, so low-end machines will continue to be 680x0 based. This philosophy goes against previous wisdom and makes the gap between the Phase 5 PowerUp end A\BOX yet wider

it's Phase 5 which is the second major difference this time around. Even though they may not be in the running for ownership of the Arrige

66 The market ien't big enough for all of you, for Pete's sake get together and try to organise some common ground ... 99

itself, no-one can deny that they've done more to take the Arniga forward than any other company Indeed they would appear to be the only hope for a true next generation Arriga before the next Millannium.

So we find the next probable company to own the Amega will produce Amigas as we know them (and is already doing so) elbert more experi sively and with some half reasonable specifications at last

Meanwhile Phase 5 are set to release the PowerUp to the Amiga market - something that will be suc cessful and which surely QuikPak can't ignore with reference to their Dec Alpha statements

ProDAD are also working on a platform-independent AmigeOS style operating system which is a fundamentally great idea although Phase 5 are doing the same and QuikPak will presumably port ArregaOS to the Dec Alpha.

Lord have mercy, this is insune! The market isn't big arough for all of you, for Peta's sake get together and try to organise some common ground for ALL our sakes

Abort, retry, fail?



With computing new so much a part of our culture, it had to happen. There has been the odd cheesy Space Invaders inspired trash-pop track in the lower reaches of the charts before, but Whita Room's 'Abort. Retry, Fail' which has just reached number 1, is as far as I remomber the

first song to use the language of computing as a mode of semiotic discourse What this means in plain English, is that computing has antered public consciousness to such a degree that a phrase which derives from computing can be successfully used to parallel an emotional idea, in this case the parallel being the lack of communication between two people and the lack of communication between a human and a PC

The phrasa 'Abort, Retry, Fail' is one people who used PCs in the bad old days will find spine chillingly familiar, Anyone who first expenenced PCs in the days before Windows '95 actually made the PC a useable GUI based machine (Windows 3.1 was too painful to use, you really had to stick to MS-DOS if you wanted the machine to do anything) will have, somewhere on their souls, a little scar marked 'Abort. Retry Fail'

The first time you came across this little seemingly harmless grouping of words was usually when you tried to change directory to a volume 66 The phrase Abort, Retry, Fail is one people who used PCs in the bad old days will find spine chillingly familiar. 99

that didn't exast. First you would Retry. Maybe it had just gone a little wrong But no, it just asked you Abort, Retry, or Fail again. What next? Time to give up, tell it to abort. Uhuh. Try that and what does it say?

Abort, Retry, or Fail? If you are new to computing, Fad sounds a little drastic, maybe even dangerous, you don't know what damage you might do You just want out, to abort, so you type A again. No luck. You start to get wound up, harnmering the A key, veiling at the machine, begging the little \$%8I to understand what you are telling it to do Eventually, with fear and transfation, and not a little desporation, you bit F for fail

Maybe computers are more human then we thought #

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